

THE HEMIPTERIST

A JOURNAL ON THE NATURAL HISTORY
OF THE HEMIPTERA OF THE BRITISH ISLES



Volume 5 (2018)

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Cover photograph: *Phytocoris reuteri* Saunders (Hemiptera: Miridae).

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AN ADDENDUM TO SAUNDERS' HEMIPTERA-HETEROPTERA OF THE BRITISH ISLANDS

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There have been many changes to the nomenclature of the British Hemiptera-Heteroptera in the 125 years since Saunders (1892), which makes this text awkward to use by modern Hemipterists. To alleviate the problem, I present below a checklist of the modern names of the British Hemiptera-Heteroptera with the corresponding names used as headings for Saunders' species accounts. The name correspondences were derived from Butler (1923) and the addendum to that work (Ryan, 2016a). Multiple correspondences due to ambiguous species names are not shown here, but are documented in Ryan (2015, 2016b & 2018).

ARADIDAE

<i>Aneurus avenius</i> (Dufour)	-
<i>Aneurus laevis</i> (Fabricius)	<i>Aneurus laevis</i> , Fab.
<i>Aradus aterrimus</i> Fieber	<i>Aradus aterrimus</i> , D. & S.
<i>Aradus betulae</i> (Linnaeus)	-
<i>Aradus cinnamomeus</i> Panzer	-
<i>Aradus corticalis</i> (Linnaeus)	<i>Aradus corticalis</i> , Linn.
Deleted (Butler, 1923)	<i>Aradus Lawsoni</i> , Saund.
<i>Aradus depressus</i> (Fabricius)	<i>Aradus depressus</i> , Fab.

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	<i>Acanthosoma haemorrhoidale</i> , Linn.
<i>Cyphostethus tristriatus</i> (Fabricius)	<i>Acanthosoma tristriatum</i> , Linn.
<i>Elasmotethus interstinctus</i> (Linnaeus)	<i>Acanthosoma dentatum</i> , De G.
<i>Elasmucha ferrugata</i> (Fabricius)	-
<i>Elasmucha grisea</i> (Linnaeus)	<i>Acanthosoma interstinctum</i> , Linn.

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	<i>Sehirus biguttatus</i> , Linn.
<i>Byrsinus flavicornis</i> (Fabricius)	-
<i>Canthophorus impressus</i> (Horváth)	<i>Sehirus dubius</i> , Scop.
<i>Geotomus punctulatus</i> (A. Costa)	<i>Geotomus punctulatus</i> , Costa.
<i>Legnotus limbosus</i> (Geoffroy)	<i>Gnathoconus albomarginatus</i> , Fab.
<i>Legnotus picipes</i> (Fallén)	<i>Gnathoconus picipes</i> , Fall.
<i>Sehirus luctuosus</i> Mulsant & Rey	<i>Sehirus morio</i> , Linn.
<i>Tritomegas bicolor</i> (Linnaeus)	<i>Sehirus bicolor</i> , Linn.
<i>Tritomegas sexmaculatus</i> (Rambur)	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	<i>Corimelaena scarabaeoides</i> , Linn.
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SCUTELLERIDAE

<i>Eurygaster austriaca</i> (Schrank)	<i>Eurygaster nigra</i> , Fab.
<i>Eurygaster maura</i> (Linnaeus)	<i>Eurygaster maura</i> , Linn.
<i>Eurygaster testudinaria</i> (Geoffroy)	-
<i>Odontoscelis fuliginosa</i> (Linnaeus)	<i>Odontoscelis fuliginosa</i> , Linn.
<i>Odontoscelis lineola</i> Rambur	-

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	<i>Aelia acuminata</i> , Linn.
<i>Carpocoris mediterraneus</i> Tamanini	-
<i>Carpocoris purpureipennis</i> (De Geer)	<i>Pentatoma fuscispina</i> , Boh.
<i>Chlorochroa juniperina</i> (Linnaeus)	<i>Pentatoma juniperina</i> , Linn.

PENTATOMIDAE (CONTINUED)

<i>Dolycoris baccarum</i> (Linnaeus)	<i>Pentatoma baccarum</i> , Linn.
<i>Dyrodere umbraculatus</i> (Fabricius)	-
<i>Eurydema dominulus</i> (Scopoli)	<i>Strachia festiva</i> , Linn.
<i>Eurydema oleracea</i> (Linnaeus)	<i>Strachia oleracea</i> , Linn.
<i>Eurydema ornata</i> (Linnaeus)	-
<i>Eysarcoris aeneus</i> (Scopoli)	<i>Eysarcoris aeneus</i> , Scop.
<i>Eysarcoris venustissimus</i> (Schrank)	<i>Eysarcoris melanocephalus</i> , Fab.
<i>Jalla dumosa</i> (Linnaeus)	<i>Jalla dumosa</i> , Linn.
<i>Neottiglossa pusilla</i> (Gmelin)	<i>Neottiglossa inflexa</i> , Wolff.
<i>Nezara viridula</i> (Linnaeus)	-
<i>Palomena prasina</i> (Linnaeus)	<i>Pentatoma prasina</i> , Linn.
<i>Pentatoma rufipes</i> (Linnaeus)	<i>Tropicoris rufipes</i> , Linn.
<i>Peribalus strictus</i> (Fabricius)	<i>Peribalus vernalis</i> , Wolff.
<i>Picromerus bidens</i> (Linnaeus)	<i>Picromerus bidens</i> , Linn.
<i>Piezodorus lituratus</i> (Fabricius)	<i>Piezodorus lituratus</i> , Fab.
<i>Podops inunctus</i> (Fabricius)	<i>Podops inuncta</i> , Fab.
<i>Rhacognathus punctatus</i> (Linnaeus)	<i>Asopus punctatus</i> , Linn.
<i>Rhaphigaster nebulosa</i> (Poda)	-
<i>Sciocoris cursitans</i> (Fabricius)	<i>Sciocoris cursitans</i> , Fab.
<i>Troilus luridus</i> (Fabricius)	<i>Podisus luridus</i> , Fab.
<i>Zicrona caerulea</i> (Linnaeus)	<i>Zicrona caerulea</i> , Linn.

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	<i>Pseudophlaeus Fallenii</i> , Schill.
<i>Arenocoris waltlii</i> (Herrich-Schaeffer)	-
<i>Bathysolen nubilus</i> (Fallén)	<i>Bathysolen nubilus</i> , Fall.
<i>Ceraleptus lividus</i> Stein	<i>Ceraleptus lividus</i> , Stein.
<i>Coreus marginatus</i> (Linnaeus)	<i>Syromastes marginatus</i> , Lin.
<i>Coriomeris denticulatus</i> (Scopoli)	<i>Coreus denticulatus</i> , Scop.
<i>Enoplops scapha</i> (Fabricius)	<i>Enoplops scapha</i> , Fab.
<i>Gonocerus acuteangulatus</i> (Goeze)	<i>Gonocerus venator</i> , Fab.
<i>Leptoglossus occidentalis</i> Heidemann	-
<i>Spathocera dalmanii</i> (Schilling)	<i>Spathocera Dalmanni</i> , Schill.
<i>Syromastus rhombeus</i> (Linnaeus)	<i>Verlusia rhombea</i> , Lin.

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	<i>Alydus calcaratus</i> , Linn.
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RHOPALIDAE

<i>Brachycarenum tigrinus</i> (Schilling)	-
<i>Chorosoma schillingii</i> (Schilling)	<i>Chorosoma Schillingii</i> , Schml.
<i>Corizus hyoscyami</i> (Linnaeus)	<i>Therapha hyoscyami</i> , Linn.
<i>Liorhyssus hyalinus</i> (Fabricius)	-
<i>Myrmus miriformis</i> (Fallén)	<i>Myrmus miriformis</i> , Fall.
<i>Rhopalus maculatus</i> (Fieber)	<i>Corizus maculatus</i> , Fieb.
<i>Rhopalus parumpunctatus</i> Schilling	<i>Corizus parumpunctatus</i> , Schill.
<i>Rhopalus rufus</i> Schilling	-
<i>Rhopalus subrufus</i> (Gmelin)	<i>Corizus capitatus</i> , Fab.
<i>Stictopleurus abutilon</i> (Rossi)	-
<i>Stictopleurus punctatonevrosus</i> (Goeze)	<i>Corizus crassicornis</i> , Linn.

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus)	<i>Pyrrhocoris apterus</i> , Linn.
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STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli)	<i>Stenocephalus agilis</i> , Scop.
<i>Dicranocephalus albipes</i> (Fabricius)	<i>Stenocephalus neglectus</i> , H. Schf.
<i>Dicranocephalus medius</i> (Mulsant & Rey)	-

LYGAEIDAE

<i>Acompus pallipes</i> (Herrich-Schaeffer)	-
<i>Acompus rufipes</i> (Wolff)	<i>Acompus rufipes</i> , Wolff.
<i>Aphanus rolandri</i> (Linnaeus)	<i>Aphanus Rolandri</i> , Lin.
<i>Arocatus longiceps</i> Stål	-
<i>Beosus maritimus</i> (Scopoli)	<i>Beosus luscus</i> , Fab.
<i>Chilacis typhae</i> (Perris)	<i>Chilacis typhae</i> , Perris.
<i>Cymus aurescens</i> Distant	-
<i>Cymus claviculus</i> (Fallén)	<i>Cymus claviculus</i> , Fall.
<i>Cymus glandicolor</i> Hahn	<i>Cymus glandicolor</i> , Hahn.
<i>Cymus melanocephalus</i> Fieber	<i>Cymus melanocephalus</i> , Fieb.
<i>Drymus brunneus</i> (R.F. Sahlberg)	<i>Drymus brunneus</i> , Sahlb.
<i>Drymus latus</i> Douglas & Scott	-
<i>Drymus pilicornis</i> (Mulsant & Rey)	<i>Drymus pilicornis</i> , Muls.
<i>Drymus pilipes</i> Fieber	<i>Drymus pilipes</i> , Fieb.
<i>Drymus pumilio</i> Puton	-
<i>Drymus ryeei</i> Douglas & Scott	<i>Drymus sylvaticus</i> , Fab. var. <i>Ryei</i> , D. & S.
<i>Drymus sylvaticus</i> (Fabricius)	<i>Drymus sylvaticus</i> , Fab.
<i>Emblethis denticollis</i> Horváth	-
<i>Emblethis griseus</i> (Wolff)	<i>Emblethis verbasci</i> , Fab.
<i>Eremocoris abietis</i> (Linnaeus)	-
<i>Eremocoris fenestratus</i> (Herrich-Schaeffer)	<i>Eremocoris fenestratus</i> , H. Schf.
<i>Eremocoris plebejus</i> (Fallén)	<i>Eremocoris plebeius</i> , Fall.
<i>Eremocoris podagricus</i> (Fabricius)	<i>Eremocoris podagricus</i> , Fab.
<i>Gastrodes abietum</i> Bergroth	<i>Gastrodes abietis</i> , Linn.
<i>Gastrodes grossipes</i> (De Geer)	<i>Gastrodes ferrugineus</i> , Linn.
<i>Graptopeltus lynceus</i> (Fabricius)	<i>Aphanus lynceus</i> , Fab.
<i>Henestaris halophilus</i> (Burmeister)	<i>Henestaris halophilus</i> , Burm.
<i>Henestaris laticeps</i> (Curtis)	<i>Henestaris laticeps</i> , Curt.
<i>Heterogaster artemisiae</i> Schilling	<i>Heterogaster artemisiae</i> , Schill.
<i>Heterogaster urticae</i> (Fabricius)	<i>Heterogaster urticae</i> , Fab.
<i>Ischnocoris angustulus</i> (Boheman)	<i>Ischnocoris angustulus</i> , Boh.
<i>Ischnodemus quadratus</i> Fieber	-
<i>Ischnodemus sabuleti</i> (Fallén)	<i>Ischnodemus sabuleti</i> , Fall.
<i>Kleidocerys ericae</i> (Horváth)	<i>Ischnorhynchus geminatus</i> , Fieb.
<i>Kleidocerys resedae</i> (Panzer)	<i>Ischnorhynchus resedae</i> , Panz.
<i>Lamproplax picea</i> (Flor)	<i>Drymus piceus</i> , Flor.
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	<i>Lasiosomus enervis</i> , H. Schff.
<i>Lygaeus equestris</i> (Linnaeus)	<i>Lygaeus equestris</i> , Linn.
<i>Lygaeus simulans</i> Deckert	-
<i>Macrodema microptera</i> (Curtis)	<i>Macrodema micropterum</i> , Curt.
<i>Macroplax preyssleri</i> (Fieber)	-
<i>Megalonotus antennatus</i> (Schilling)	<i>Rhyparochromus antennatus</i> , Schill.
<i>Megalonotus chiragra</i> (Fabricius)	<i>Rhyparochromus chiragra</i> , Fab.
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	<i>Rhyparochromus dilatatus</i> , H. Schf.
<i>Megalonotus emarginatus</i> (Rey)	-
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	<i>Rhyparochromus praetextatus</i> .
<i>Megalonotus sabulicola</i> (Thomson)	<i>Rhyparochromus chiragra</i> , Fab. var. <i>sabulicola</i> , Thoms.
<i>Metopoplax ditomoides</i> (A. Costa)	-
<i>Metopoplax fuscinervis</i> Stål	-
<i>Notochilus limbatus</i> Fieber	<i>Notochilus limbatus</i> , Fieb.
<i>Nysius cymoides</i> (Spinola)	-
<i>Nysius ericae</i> (Schilling)	-
<i>Nysius graminicola</i> (Kolenati)	-
<i>Nysius helveticus</i> (Herrich-Schaeffer)	<i>Nysius lineatus</i> , Cost.
<i>Nysius huttoni</i> F.B. White	-
<i>Nysius senecionis</i> (Schilling)	-
<i>Nysius thymi</i> (Wolff)	<i>Nysius thymi</i> , Wolff.
<i>Orsillus depressus</i> (Mulsant & Rey)	-
<i>Ortholomus punctipennis</i> (Herrich-Schaeffer)	-

LYGAEIDAE (CONTINUED)

Pachybrachius fracticollis (Schilling)
Pachybrachius luridus Hahn
Peritrechus angusticollis (R.F. Sahlberg)
Peritrechus convivus (Stål)
Peritrechus geniculatus (Hahn)
Peritrechus gracilicornis Puton
Peritrechus lundii (Gmelin)
Peritrechus nubilus (Fallén)
Pionosomus varius (Wolff)
Plinthisus brevipennis (Latreille)
Pterotmetus staphyliniformis (Schilling)
Raglius alboacuminatus (Goeze)
Rhyparochromus pini (Linnaeus)
Rhyparochromus vulgaris (Schilling)
Scolopostethus affinis (Schilling)
Scolopostethus decoratus (Hahn)
Scolopostethus grandis Horváth
Scolopostethus pictus (Schilling)
Scolopostethus puberulus Horváth
Scolopostethus thomsoni Reuter
Sphragisticus nebulosus (Fallén)
Stygnocoris fuliginus (Geoffroy)
Stygnocoris rusticus (Fallén)
Stygnocoris sabulosus (Schilling)
Taphropeltus contractus (Herrich-Schaeffer)
Taphropeltus hamulatus (Thomson)
Trapezonotus arenarius (Linnaeus)
Trapezonotus desertus Seidenstücker
Trapezonotus dispar Stål
Trapezonotus ullrichi (Fieber)
Tropistethus holosericus (Scholtz)
Xanthochilus quadratus (Fabricius)

Plociomerus fracticollis, Schill.
Plociomerus luridus, Hahn.
 -
Trapezonotus distinguendus, Flor.
Peritrechus geniculatus, Hahn.
Peritrechus gracilicornis, Put.
Peritrechus luniger, Schill.
Peritrechus nubilus, Fall.
Pionosomus varius, Wolff.
Plinthisus brevipennis, Latr.
 -
Aphanus pedestris, Panz.
Aphanus pini, Lin.
 -
Scolopostethus affinis, Schill.
Scolopostethus decoratus, Hahn.
Scolopostethus grandis, Horv.
Scolopostethus pictus, Schill.
Scolopostethus puberulus, Horv.
Scolopostethus neglectus, Edw.
 -
Stygnus arenarius, Hahn.
Stygnus rusticus, Fall.
Stygnus pedestris, Fall.
Notochilus contractus, H. S.
 -
Trapezonotus agrestis, Fall.
 -
Trapezonotus agrestis, Fall. var. *dispar*, Stål.
Trapezonotus Ullrichii, Fieb.
Tropistethus holosericeus, Schltz.
Aphanus quadratus, Fab.

BERYTIDAE

Berytinus clavipes (Fabricius)
Berytinus crassipes (Herrich-Schaeffer)
Berytinus hirticornis (Brullé)
Berytinus minor (Herrich-Schaeffer)
Berytinus montivagus (Meyer-Dür)
Berytinus signoreti (Fieber)
Gampsocoris punctipes (Germar)
Metatropis rufescens (Herrich-Schaeffer)
Neides tipularius (Linnaeus)

Berytus clavipes, Fab.
Berytus crassipes, H. Schf.
 -
Berytus minor, H. Schf.
Berytus montivagus, Fieb.
Berytus Signoreti, Fieb.
Metacanthus punctipes, Germ.
Metatropis rufescens, H. Schf.
Neides tipularius, Linn.

PIESMATIDAE

Parapiesma quadratum (Fieber)
Piesma maculatum (Laporte)

Piesma quadrata, Fieb.
Piesma capitata, Wolff.

TINGIDAE

Acalypta brunnea (Germar)
Acalypta carinata (Panzer)
Acalypta nigrina (Fallén)

Acalypta parvula (Fallén)
Acalypta platycheila (Fieber)
Agramma laetum (Fallén)
Campylosteira verna (Fallén)
Catoplatys fabricii (Stål)
Corythucha ciliata (Say)

Orthostira brunnea, Germ.
Orthostira cervina, Germ.
Orthostira nigrina, Fall.
 + *Orthostira macrophthalma*, Fieb.
Orthostira parvula, Fall.
 -
Serenthia laeta, Fall.
Campylostira verna, Fall.
Monanthia costata, Fieb.
 -

TINGIDAE (CONTINUED)

<i>Derephysia foliacea</i> (Fallén)	<i>Derephysia foliacea</i> , Fall.
<i>Dictyla convergens</i> (Herrich-Schaeffer)	<i>Monanthia humuli</i> , Fab.
<i>Dictyonota fuliginosa</i> A. Costa	<i>Dictyonota fuliginosa</i> , Cost.
<i>Dictyonota strichnocera</i> Fieber	<i>Dictyonota strichnocera</i> , Fieb.
<i>Kalama tricornis</i> (Schrank)	<i>Dictyonota crassicornis</i> , Fall.
<i>Lasiacantha capucina</i> (Germar)	-
<i>Oncochila simplex</i> (Herrich-Schaeffer)	<i>Monanthia simplex</i> , H. Schff.
<i>Physatocheila confinis</i> Horváth	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	<i>Monanthia dumetorum</i> , H. Schff.
<i>Physatocheila harwoodi</i> China	-
<i>Physatocheila smreczynskii</i> China	<i>Monanthia quadrimaculata</i> , Wolff.
<i>Stephanitis rhododendri</i> Horváth	-
<i>Stephanitis takeyai</i> Drake & Maa	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	<i>Monanthia ampliata</i> , Fieb.
<i>Tingis angustata</i> (Herrich-Schaeffer)	<i>Monanthia angustata</i> , H. Schff.
<i>Tingis cardui</i> (Linnaeus)	<i>Monanthia cardui</i> , Linn.
<i>Tingis reticulata</i> Herrich-Schaeffer	<i>Monanthia ciliata</i> , Fieb.

REDUVIIDAE

<i>Coranus aethiops</i> Jakovlev	-
<i>Coranus subapterus</i> (De Geer)	<i>Coranus sub-apterus</i> , De G.
<i>Coranus woodroffe</i> P.V. Putshkov	-
<i>Empicoris baerensprungi</i> (Dohrn)	-
<i>Empicoris culiciformis</i> (De Geer)	<i>Ploiaria culiciformis</i> , De G.
<i>Empicoris vagabundus</i> (Linnaeus)	<i>Ploiaria vagabunda</i> , Linn.
<i>Oncocephalus pilicornis</i> Reuter	-
<i>Pygolampis bidentata</i> (Goeze)	<i>Pygolampis bidentata</i> , Fourer.
<i>Reduvius personatus</i> (Linnaeus)	<i>Reduvius personatus</i> , Linn.

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	<i>Nabis brevipennis</i> , Hahn.
<i>Himacerus boops</i> (Schjødte)	<i>Nabis boops</i> , Schjødte.
<i>Himacerus major</i> (A. Costa)	<i>Nabis major</i> , Cost.
<i>Himacerus mirmicoides</i> (O. Costa)	<i>Nabis lativentris</i> , Boh.
<i>Nabis brevis</i> Scholtz	-
<i>Nabis ericetorum</i> Scholtz	<i>Nabis ericetorum</i> , Schltz.
<i>Nabis fesus</i> (Linnaeus)	<i>Nabis fesus</i> , Linn.
<i>Nabis flavomarginatus</i> Scholtz	<i>Nabis flavomarginatus</i> , Scholtz.
<i>Nabis limbatus</i> Dahlbom	<i>Nabis limbatus</i> , Dahlb.
<i>Nabis lineatus</i> Dahlbom	<i>Nabis lineatus</i> , Dahlb.
<i>Nabis pseudoferus</i> Remane	-
<i>Nabis rugosus</i> (Linnaeus)	<i>Nabis rugosus</i> , Linn.
<i>Prostemma guttula</i> (Fabricius)	<i>Prostemma guttula</i> , Fab.

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	<i>Acompocoris alpinus</i> , Reut.
<i>Acompocoris pygmaeus</i> (Fallén)	<i>Acompocoris pygmaeus</i> , Fall.
<i>Anthocoris amplicolis</i> Horváth	-
<i>Anthocoris butleri</i> Le Quesne	-
<i>Anthocoris confusus</i> Reuter	<i>Anthocoris confusus</i> , Reut.
<i>Anthocoris gallarumulmi</i> (De Geer)	<i>Anthocoris gallarum ulmi</i> , De Geer.
<i>Anthocoris limbatus</i> Fieber	-
<i>Anthocoris minki</i> Dohrn	-
<i>Anthocoris nemoralis</i> (Fabricius)	<i>Anthocoris nemoralis</i> , Fabr.
<i>Anthocoris nemorum</i> (Linnaeus)	<i>Anthocoris sylvestris</i> Linn.
<i>Anthocoris pilosus</i> (Jakovlev)	-
<i>Anthocoris sarothamni</i> Douglas & Scott	<i>Anthocoris sarothamni</i> , D. & S.
<i>Anthocoris simulans</i> Reuter	-
<i>Anthocoris visci</i> Douglas	<i>Anthocoris visci</i> , Dougl.

ANTHOCORIDAE (CONTINUED)

Brachysteles parvicornis (A. Costa)
Buchananiella continua (F.B. White)
Cardiastethus fasciiventris (Garbiglietti)
Dufouriellus ater (Dufour)
Elatophilus nigricornis (Zetterstedt)
Lyctocoris campestris (Fabricius)
Orius laevigatus (Fieber)
Orius laticollis (Reuter)
Orius majusculus (Reuter)
Orius niger (Wolff)
Orius vicinus (Ribaut)
Deleted (Ryan, 2015 & 2016a)
Temnostethus gracilis Horváth
Temnostethus pusillus (Herrich-Schaeffer)
Temnostethus tibialis Reuter
Tetraphleps bicuspis (Herrich-Schaeffer)
Xylocoridea brevipennis Reuter
Xylocoris cursitans (Fallén)
Xylocoris formicetorum (Boheman)
Xylocoris galactinus (Fieber)

Brachysteles parvicornis, Costa.
-
Cardiastethus fascii-ventris, Garb.
Xylocoris ater, Duf.
Elatophilus nigricornis, Zett.
Lyctocoris campestris, Fab.
-
-
Triphleps majusculus, Reut.
Triphleps niger, Wolff.
-
Triphleps minutus, Linn.
-
Temnostethus pusillus, H. Schff.
-
Tetraphleps vittata, Fieb.
-
Piezostethus cursitans, Fall.
Piezostethus formicetorum, Boh.
Piezostethus galactinus, Fieb.

CIMICIDAE

Cimex columbarius Jenyns
Cimex lectularius Linnaeus
Cimex pipistrelli Jenyns
Oeciacus hirundinis (Lamarck)

Cimex columbarius, Jen.
Cimex lectularius, Lin.
Cimex pipistrelli, Jen.
Cimex hirundinis, Jen.

MICROPHYSIDAE

Loricula coleoptrata (Fallén)
Loricula distinguenda (Reuter)
Loricula elegantula (Baerensprung)
Loricula exilis (Fallén)
Loricula inconspicua (Douglas & Scott)
Loricula pselaphiformis Curtis
Loricula ruficeps (Reuter)

Myrmedobia coleoptrata, Fall.
Myrmedobia distinguenda, Reut.
Microphysa elegantula, Baer.
Myrmedobia tenella, Zett.
Myrmedobia inconspicua, D. & S.
Microphysa pselaphiformis, Curt.
-

MIRIDAE

Acetropis gimmerthalii (Flor)
Adelphocoris lineolatus (Goeze)
Adelphocoris seticornis (Fabricius)
Adelphocoris ticinensis (Meyer-Dür)
Agnocoris reclairei (Wagner)
Alloeotomus gothicus (Fallén)
Amblytylus brevicollis Fieber
Amblytylus delicatus (Perris)
Amblytylus nasutus (Kirschbaum)
Apolygus limbatus (Fallén)
Apolygus lucorum (Meyer-Dür)
Apolygus spinolae (Meyer-Dür)
Asciodema obsoleta (Fieber)
Atractotomus magnicornis (Fallén)
Atractotomus mali (Meyer-Dür)
Atractotomus parvulus Reuter
Blepharidopterus angulatus (Fallén)
Blepharidopterus diaphanus (Kirschbaum)
Bothynotus pilosus (Boheman)
Brachyarthrur limitatum Fieber
Brachynotocoris puncticornis Reuter
Bryocoris pteridis (Fallén)

Acetropis Gimmerthalii, Flor
Calocoris chenopodii, Fall.
Calocoris seticornis, Fab.
Calocoris ticinensis, Mey.
-
-
Amblytylus brevicollis, Fieb.
Amblytylus delicatus, Perr.
Amblytylus affinis, Fieb.
Lygus limbatus, Fall.
Lygus lucorum, Mey.
Lygus Spinolae, Mey.
Asciodema obsoletum, D. & S.
Atractotomus magnicornis, Fall.
Atractotomus mali, Mey.
-
Aetorhinus angulatus, Fall.
Orthotylus diaphanus, Kb.
Bothynotus pilosus, Boh.
-
-
Bryocoris pteridis, Fall.

MIRIDAE (CONTINUED)

<i>Calocoris alpestris</i> (Meyer-Dür)	<i>Calocoris alpestris</i> , Mey.
<i>Calocoris roseomaculatus</i> (De Geer)	<i>Calocoris roseomaculatus</i> De G.
<i>Camptozygum aequale</i> (Villers)	<i>Zygimus pinastri</i> , Fall.
<i>Campylomma annulicorne</i> (Signoret)	-
<i>Campylomma verbasci</i> (Meyer-Dür)	-
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	<i>Campyloneura virgula</i> , H. Schf.
<i>Capsodes flavomarginatus</i> (Donovan)	<i>Lopus flavomarginatus</i> , Don.
<i>Capsodes gothicus</i> (Linnaeus)	<i>Lopus gothicus</i> , Linn.
<i>Capsodes sulcatus</i> (Fieber)	<i>Lopus sulcatus</i> , Fieb.
<i>Capsus ater</i> (Linnaeus)	<i>Rhopalotomus ater</i> , Linn.
<i>Capsus wagneri</i> (Remane)	-
<i>Charagochilus gyllenhalii</i> (Fallén)	<i>Poeciloscytus Gyllenhalii</i> , Fall.
<i>Charagochilus weberi</i> Wagner	-
<i>Chlamydatus evanescens</i> (Boheman)	-
<i>Chlamydatus pulicarius</i> (Fallén)	-
<i>Chlamydatus pullus</i> (Reuter)	<i>Plagiognathus pulicarius</i> , Fall. var. <i>pullus</i> , Reut.
<i>Chlamydatus saltitans</i> (Fallén)	<i>Plagiognathus saltitans</i> , Fall.
<i>Chlamydatus wilkinsoni</i> (Douglas & Scott)	<i>Plagiognathus Wilkinsoni</i> , D. & S.
<i>Closterotomus fulvomaculatus</i> (De Geer)	<i>Calocoris fulvomaculatus</i> , De G.
<i>Closterotomus norwegicus</i> (Gmelin)	<i>Calocoris bipunctatus</i> , Fab.
<i>Closterotomus trivialis</i> (A. Costa)	-
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	<i>Psallus salicellus</i> , Meyer.
<i>Conostethus brevis</i> Reuter	<i>Conostethus brevis</i> , Reut.
<i>Conostethus griseus</i> Douglas & Scott	<i>Conostethus salinus</i> , Sahlb.
<i>Conostethus roseus</i> (Fallén)	<i>Conostethus roseus</i> , Fall.
<i>Conostethus venustus</i> (Fieber)	-
<i>Cyllocoris histrionicus</i> (Linnaeus)	<i>Cyllocoris histrionicus</i> , Linn.
<i>Cyrtorhinus caricis</i> (Fallén)	<i>Cyrtorrhinus caricis</i> , Fall.
<i>Deraeocoris flavilinea</i> (A. Costa)	-
<i>Deraeocoris lutescens</i> (Schilling)	<i>Camptobrochis lutescens</i> , Schill.
<i>Deraeocoris olivaceus</i> (Fabricius)	-
<i>Deraeocoris ruber</i> (Linnaeus)	<i>Capsus laniarius</i> , Linn.
<i>Deraeocoris scutellaris</i> (Fabricius)	<i>Capsus scutellaris</i> , Fab.
<i>Dichrooscytus gustavi</i> Josifov	-
<i>Dichrooscytus rufipennis</i> (Fallén)	<i>Dichrooscytus rufipennis</i> , Fall.
<i>Dicyphus annulatus</i> (Wolff)	<i>Dicyphus annulatus</i> , Wolff.
<i>Dicyphus constrictus</i> (Boheman)	<i>Dicyphus constrictus</i> , Boh.
<i>Dicyphus epilobii</i> Reuter	<i>Dicyphus epilobii</i> , Reut.
<i>Dicyphus errans</i> (Wolff)	<i>Dicyphus errans</i> , Wolff.
<i>Dicyphus escalerae</i> Lindberg	-
<i>Dicyphus globulifer</i> (Fallén)	<i>Dicyphus globulifer</i> , Fall.
<i>Dicyphus pallicornis</i> (Fieber)	<i>Dicyphus pallidicornis</i> , Fieb.
<i>Dicyphus pallidus</i> (Herrich-Schaeffer)	-
<i>Dicyphus stachydis</i> J. Sahlberg	<i>Dicyphus stachydis</i> , Reut.
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	<i>Cyllocoris flavonotatus</i> , Boh.
<i>Europiella artemisiae</i> (Becker)	<i>Plagiognathus albipennis</i> , Fall.
<i>Europiella decolor</i> (Uhler)	-
<i>Fieberocapsus flaveolus</i> (Reuter)	<i>Cyrtorrhinus flaveolus</i> , Reut.
<i>Globiceps flavomaculatus</i> (Fabricius)	<i>Globiceps flavomaculatus</i> , Fab.
<i>Globiceps fulvicollis</i> Jakovlev	<i>Globiceps cruciatus</i> , Reut.
<i>Globiceps juniperi</i> Reuter	-
<i>Grypocoris styxi</i> (Wagner)	<i>Calocoris sexguttatus</i> , Fab.
<i>Hadrodemus m-flavum</i> (Goeze)	<i>Calocoris marginellus</i> , Fab.
<i>Hallodapus montandoni</i> Reuter	-
<i>Hallodapus rufescens</i> (Burmeister)	<i>Allodapus rufescens</i> , H. Schf.
<i>Halticus apterus</i> (Linnaeus)	<i>Halticus apterus</i> , Linn.
<i>Halticus luteicollis</i> (Panzer)	<i>Halticus luteicollis</i> , Panz.
<i>Halticus macrocephalus</i> Fieber	-
<i>Halticus saltator</i> (Geoffroy)	-

MIRIDAE (CONTINUED)

<i>Harpocera thoracica</i> (Fallén)	<i>Harpocera thoracica</i> , Fall.
<i>Heterocordylus genistae</i> (Scopoli)	<i>Heterocordylus genistae</i> , Scop.
<i>Heterocordylus tibialis</i> (Hahn)	<i>Heterocordylus tibialis</i> , Hahn.
<i>Heterotoma planicornis</i> (Pallas)	<i>Heterotoma merioptera</i> , Scop.
<i>Hopломachus thunbergii</i> (Fallén)	<i>Hopломachus Thunbergii</i> , Fall.
<i>Hypseloecus visci</i> (Puton)	-
<i>Leptopterna dolabrata</i> (Linnaeus)	<i>Leptopterna dolabrata</i> , Linn.
<i>Leptopterna ferrugata</i> (Fallén)	<i>Leptopterna ferrugata</i> , Fall.
<i>Liocoris tripustulatus</i> (Fabricius)	<i>Liocoris tripustulatus</i> , Fab.
<i>Lopus decolor</i> (Fallén)	<i>Onychumenus decolor</i> , Fall.
<i>Lygocoris pabulinus</i> (Linnaeus)	<i>Lygus pabulinus</i> , Linn.
<i>Lygocoris rugicollis</i> (Fallén)	<i>Plesiocoris rugicollis</i> , Fall.
<i>Lygus maritimus</i> Wagner	-
<i>Lygus pratensis</i> (Linnaeus)	<i>Lygus pratensis</i> , Fab.
<i>Lygus punctatus</i> (Zetterstedt)	-
<i>Lygus rugulipennis</i> Poppius	-
<i>Lygus wagneri</i> Remane	-
<i>Macrolophus pygmaeus</i> (Rambur)	<i>Macrolophus nubilus</i> , H. Sch.
<i>Macrolophus rubi</i> Woodroffe	-
<i>Macrotylus horvathi</i> (Reuter)	-
<i>Macrotylus paykullii</i> (Fallén)	<i>Macrotylus Paykullii</i> , Fall.
<i>Macrotylus solitarius</i> (Meyer-Dür)	<i>Macrotylus solitarius</i> , Mey.
<i>Malacocoris chlorizans</i> (Panzer)	<i>Malacocoris chlorizans</i> , Fall.
<i>Mecomma ambulans</i> (Fallén)	<i>Mecomma ambulans</i> , Fall.
<i>Mecomma dispar</i> (Boheman)	<i>Globiceps dispar</i> , Boh.
Deleted (Butler (1923): a dark var of <i>M. dispar</i>)	<i>Globiceps ater</i> , D. & S.
<i>Megacoelum beckeri</i> (Fieber)	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	<i>Calocoris infusus</i> , H. Schf.
<i>Megaloceroea recticornis</i> (Geoffroy)	<i>Megaloceraea longicornis</i> , Fall.
<i>Megalocoleus molliculus</i> (Fallén)	<i>Macrocoleus molliculus</i> , Fall.
<i>Megalocoleus tanacetii</i> (Fallén)	<i>Macrocoleus tanacetii</i> , Fall.
<i>Miridius quadrivirgatus</i> (A. Costa)	<i>Miridius quadrivirgatus</i> , Costa.
<i>Miris striatus</i> (Linnaeus)	<i>Calocoris striatus</i> , Linn.
<i>Monalocoris filicis</i> (Linnaeus)	<i>Monalocoris filicis</i> , Linn.
<i>Monosynamma bohemani</i> (Fallén)	<i>Plagiognathus bohemani</i> , Fall.
Deleted (Butler, 1923)	<i>Plagiognathus nigrutilus</i> , Fall.
<i>Monosynamma maritimum</i> (Wagner)	-
<i>Monosynamma sabulicola</i> (Wagner)	-
<i>Myrmecoris gracilis</i> (R.F. Sahlberg)	-
<i>Neolygus contaminatus</i> (Fallén)	<i>Lygus contaminatus</i> , Fall.
<i>Neolygus populi</i> (Leston)	-
<i>Neolygus viridis</i> (Fallén)	<i>Lygus viridis</i> , Fall.
<i>Notostira elongata</i> (Geoffroy)	-
<i>Notostira erratica</i> (Linnaeus)	<i>Megaloceraea erratica</i> , Linn.
<i>Oncotylus viridiflavus</i> (Goeze)	<i>Oncotylus viridiflavus</i> , Goeze.
<i>Orthocephalus coriaceus</i> (Fabricius)	<i>Orthocephalus mutabilis</i> , Fall.
<i>Orthocephalus saltator</i> (Hahn)	<i>Orthocephalus saltator</i> , Hahn.
<i>Orthonotus rufifrons</i> (Fallén)	<i>Byrsoptera rufifrons</i> , Fall.
<i>Orthops basalis</i> (A. Costa)	-
<i>Orthops campestris</i> (Linnaeus)	<i>Lygus pastinacae</i> , Fall.
<i>Orthops kalmii</i> (Linnaeus)	<i>Lygus Kalmii</i> , Linn.
<i>Orthotylus adenocarpi</i> (Perris)	<i>Orthotylus adenocarpi</i> , Perr.
<i>Orthotylus bilineatus</i> (Fallén)	<i>Orthotylus bilineatus</i> , Fall.
<i>Orthotylus caprai</i> Wagner	-
<i>Orthotylus concolor</i> (Kirschbaum)	<i>Orthotylus concolor</i> , Kb.
<i>Orthotylus ericetorum</i> (Fallén)	<i>Orthotylus ericetorum</i> , Fall.
<i>Orthotylus flavinervis</i> (Kirschbaum)	<i>Orthotylus flavinervis</i> , Kbm.
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	<i>Orthotylus flavosparsus</i> , Sahlb.
<i>Orthotylus fuscescens</i> (Kirschbaum)	<i>Orthotylus fuscescens</i> , Kb.

MIRIDAE (CONTINUED)

- Orthotylus junipericola* Linnavuori
Orthotylus marginalis Reuter
Orthotylus moncreaffi (Douglas & Scott)
Orthotylus nassatus (Fabricius)
Orthotylus ochrotrichus Fieber
Orthotylus prasinus (Fallén)
Deleted (Ryan, 2016a):
Orthotylus rubidus (Puton)
Orthotylus tenellus (Fallén)
Orthotylus virens (Fallén)
Orthotylus virescens (Douglas & Scott)
Orthotylus viridinervis (Kirschbaum)
Pachytomella parallela (Meyer-Dür)
Pantilius tunicatus (Fabricius)
Parapsallus vitellinus (Scholtz)
Phoenicocoris obscurellus (Fallén)
Phylus coryli (Linnaeus)
Phylus melanocephalus (Linnaeus)
Deleted (Ryan, 2016a):
Phytocoris dimidiatus Kirschbaum
Phytocoris insignis Reuter
Phytocoris longipennis Flor
Phytocoris pini Kirschbaum
Phytocoris populi (Linnaeus)
Phytocoris reuteri Saunders
Phytocoris tiliae (Fabricius)
Phytocoris ulmi (Linnaeus)
Phytocoris varipes Boheman
Pilophorus cinnamopterus (Kirschbaum)
Pilophorus clavatus (Linnaeus)
Pilophorus confusus (Kirschbaum)
Pilophorus perplexus Douglas & Scott
Pinalitus atomarius (Meyer-Dür)
Pinalitus cervinus (Herrich-Schaeffer)
Pinalitus rubricatus (Fallén)
Pinalitus viscicola (Puton)
Pithanus maerkelii (Herrich-Schaeffer)
Placochilus seladonicus (Fallén)
Plagiognathus arbustorum (Fabricius)
Plagiognathus chrysanthemi (Wolff)
Platycranus bicolor (Douglas & Scott)
Plesiodema pinetella (Zetterstedt)
Polymerus nigrita (Fallén)
Polymerus palustris (Reuter)
Polymerus unifasciatus (Fabricius)
Polymerus vulneratus (Panzer)
Psallodema fieberi (Fieber)
Psallus albicinctus (Kirschbaum)
Psallus ambiguus (Fallén)
Psallus assimilis Stichel
Psallus betuleti (Fallén)
Psallus confusus Rieger
Psallus falleni Reuter
Psallus flavellus Stichel
Psallus haematodes (Gmelin)
Psallus lepidus Fieber
Psallus luridus Reuter
Psallus mollis (Mulsant & Rey)
Psallus montanus Josifov
-
Orthotylus marginalis, Reut.
Orthotylus rubidus, Put. var. *moncreaffi*, D. & S.
Orthotylus nassatus, Fab.
Orthotylus ochrotrichus, D. & S.
Orthotylus prasinus, Fall.
Orthotylus Scotti, Reut.
Orthotylus rubidus, Put.
Orthotylus tenellus, Fall.
-
Orthotylus chloropterus, Kbm.
Orthotylus viridinervis, Kb.
-
Pantilius tunicatus, Fab.
-
Psallus obscurellus, Fall.
Phylus coryli, Linn.
Phylus melanocephalus, Linn.
Phylus palliceps, Fieb.
Phytocoris dimidiatus, Kbm.
-
Phytocoris longipennis, Flor.
Phytocoris pini, Kbm.
Phytocoris populi, Linn.
Phytocoris Reuteri, Saund.
Phytocoris tiliae, Fab.
Phytocoris ulmi, Linn.
Phytocoris varipes, Boh.
Pilophorus cinnamopterus, Kbm.
Pilophorus clavatus, Linn.
-
Pilophorus perplexus, D. & S.
Lygus atomarius, Mey.
Lygus cervinus, H. Schf.
Lygus rubricatus, Fall.
Lygus viscicola, Put.
Pithanus Maerkeli, H. S.
-
Plagiognathus arbustorum, Fab.
Plagiognathus viridulus, Fall.
Hypsitylus bicolor, D. & S.
Plesiodema pinetellum, Zett.
Poeciloscytus nigritus, Fall.
-
Poeciloscytus unifasciatus, Fab.
-
Asciodema Fieberi, D. & S.
Psallus albicinctus, Kbm.
Psallus ambiguus, Fall.
-
Psallus betuleti, Fall.
Psallus diminutus, Kbm.
Psallus Fallenii, Reut.
Psallus lepidus, Fieb. + var. *minor*.
Psallus sanguineus, Fab.
Psallus lepidus, Fieb.
-
-
-

MIRIDAE (CONTINUED)

<i>Psallus perrisi</i> (Mulsant & Rey)	-
<i>Psallus pseudoplatani</i> Reichling	-
<i>Psallus quercus</i> (Kirschbaum)	<i>Psallus quercus</i> , Kbm.
<i>Psallus salicis</i> (Kirschbaum)	<i>Psallus alnicola</i> , D. & S.
<i>Psallus variabilis</i> (Fallén)	<i>Psallus variabilis</i> , Fall.
<i>Psallus varians</i> (Herrich-Schaeffer)	<i>Psallus varians</i> , H. Schf.
<i>Psallus wagneri</i> Ossiannilsson	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	<i>Loxops coccineus</i> , Mey.
<i>Reuteria marqueti</i> Puton	-
<i>Rhabdomiris striatellus</i> (Fabricius)	<i>Calocoris striatellus</i> , Fab.
<i>Salicarus roseri</i> (Herrich-Schaeffer)	<i>Plagiognathus Roseri</i> , H. Schf.
<i>Stenodema calcarata</i> (Fallén)	<i>Miris calcaratus</i> , Fall.
<i>Stenodema holsata</i> (Fabricius)	<i>Miris holsatus</i> , Fab.
<i>Stenodema laevigata</i> (Linnaeus)	<i>Miris laevigatus</i> , Linn.
<i>Stenodema trispinosa</i> Reuter	-
<i>Stenotus binotatus</i> (Fabricius)	<i>Oncognathus binotatus</i> , Fab.
<i>Sthenarus rotermundi</i> (Scholtz)	<i>Psallus Rotermundi</i> , Scholtz.
<i>Strongylocoris leucocephalus</i> (Linnaeus)	<i>Strongylocoris leucocephalus</i> , Linn.
<i>Strongylocoris luridus</i> (Fallén)	<i>Strongylocoris luridus</i> , Fall.
<i>Systellonotus triguttatus</i> (Linnaeus)	<i>Systellonotus triguttatus</i> , Linn.
<i>Teratocoris antennatus</i> (Boheman)	<i>Teratocoris antennatus</i> , Boh.
<i>Teratocoris caricis</i> Kirkaldy	-
<i>Teratocoris saundersi</i> Douglas & Scott	<i>Teratocoris Saundersi</i> , D. & S.
<i>Teratocoris viridis</i> Douglas & Scott	<i>Teratocoris viridis</i> , D. & S.
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	<i>Macrocoleus hortulanus</i> , Mey.
<i>Trigonotylus caelestialium</i> (Kirkaldy)	-
<i>Trigonotylus psammaecolor</i> Reuter	-
<i>Trigonotylus ruficornis</i> (Geoffroy)	<i>Megaloceraea ruficornis</i> , Fall.
<i>Tropidostepes pacificus</i> (Van Duzee)	-
<i>Tupiocoris rhododendri</i> (Dolling)	-
<i>Tuponia brevirostris</i> Reuter	-
<i>Tuponia mixticolor</i> (A. Costa)	-
<i>Tytthus pubescens</i> (Knight)	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	<i>Cyrtorrhinus pygmaeus</i> , Zett.
<i>Zygimus nigriceps</i> (Fallén)	-

CERATOCOMBIDAE

<i>Ceratocombus coleoptratus</i> (Zetterstedt)	<i>Ceratocombus coleoptratus</i> , Zett.
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DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	<i>Cryptostemma alienum</i> , H. Sff.
<i>Pachycoleus waltli</i> Fieber	-

SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	<i>Salda cincta</i> , H. Schff.
<i>Chartoscirta cocksii</i> (Curtis)	<i>Salda Cocksii</i> , Curt.
<i>Chartoscirta elegantula</i> (Fallén)	<i>Salda elegantula</i> , Fall.
<i>Chiloxanthus pilosus</i> (Fallén)	<i>Salda pilosa</i> , Fall.
<i>Halosalda lateralis</i> (Fallén)	<i>Salda lateralis</i> , Fall.
<i>Macrosaldula scotica</i> (Curtis)	<i>Salda scotica</i> , Curt.
<i>Micracanthia marginalis</i> (Fallén)	<i>Salda marginalis</i> , Fall.
<i>Salda littoralis</i> (Linnaeus)	<i>Salda littoralis</i> , Linn.
<i>Salda morio</i> Zetterstedt	<i>Salda morio</i> , Zett.
<i>Salda muelleri</i> (Gmelin)	-
<i>Saldula arenicola</i> (Scholtz)	<i>Salda arenicola</i> , Scholtz.
<i>Saldula c-album</i> (Fieber)	<i>Salda C-album</i> , Fieb.
<i>Saldula connemarae</i> Walton	-
<i>Saldula fucicola</i> (J. Sahlberg)	-
<i>Saldula melanoscela</i> (Fieber)	-

SALDIDAE (CONTINUED)

Saldula opacula (Zetterstedt)
Saldula orthochila (Fieber)
Saldula pallipes (Fabricius)
Saldula palustris (Douglas)
Saldula pilosella (Thomson)
Saldula saltatoria (Linnaeus)
Saldula setulosa (Puton)
Teloleuca pellucens (Fabricius)

Salda opacula, Zett.
Salda orthochila, Fieb.
Salda pallipes, Fab.
Salda pallipes, Fab. var. *palustris*, Dougl.
Salda pilosella, Thoms.
Salda saltatoria, Linn.
-
Salda riparia, Fall.

AEOPHILIDAE

Aepophilus bonnairei Signoret

Aëpophilus Bonnairei, Sign.

MESOVELIIDAE

Mesovelgia furcata Mulsant & Rey

Mesovelgia furcata, Muls. & Rey.

HEBRIDAE

Hebrus pusillus (Fallén)
Hebrus ruficeps Thomson

Hebrus pusillus, Fall.
Hebrus ruficeps, Thoms.

HYDROMETRIDAE

Hydrometra gracilenta Horváth
Hydrometra stagnorum (Linnaeus)

-
Hydrometra stagnorum, Linn.

VELIIDAE

Microvelia buenoi Drake
Microvelia pygmaea (Dufour)
Microvelia reticulata (Burmeister)
Velia caprai Tamanini
Velia saulii Tamanini

-
Microvelia pygmaea, Duf.
-
Velia currens, Fab.
-

GERRIDAE

Aquarius najas (De Geer)
Aquarius paludum (Fabricius)
Gerris argentatus Schummel
Gerris costae (Herrich-Schaeffer)
Gerris gibbifer Schummel
Gerris lacustris (Linnaeus)
Gerris lateralis Schummel
Gerris odontogaster (Zetterstedt)
Gerris thoracicus Schummel
Linnoporus rufoscutellatus (Latreille)

Gerris najas, De G.
Gerris paludum, Fab.
Gerris argentatus, Schum.
Gerris Costae, H. Schff.
Gerris gibbifera, Schum.
Gerris lacustris, Linn.
Gerris aspera, Fieb.
Gerris odontogaster, Zett.
Gerris thoracica, Schum.
Gerris rufoscutellata, Latr.

NEPIDAE

Nepa cinerea Linnaeus
Ranatra linearis (Linnaeus)

Nepa cinerea, Linn.
Ranatra linearis, Linn.

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus)
Naucoris maculatus Fabricius

Naucoris cimicoides, Linn.
-

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius)

Aphelochirus aestivalis, Fab.

NOTONECTIDAE

Notonecta glauca Linnaeus
Notonecta maculata Fabricius
Notonecta obliqua Thunberg
Notonecta viridis Delcourt

Notonecta glauca, Linn.
Notonecta glauca, Linn. var. *maculata*, Fab.
Notonecta glauca, Linn. var. *furcata*.
-

PLEIDAE

Plea minutissima Leach*Plea minutissima*, Fab.

CORIXIDAE

Arctocorisa carinata (C.R. Sahlberg)*Corixa carinata*, Sahlb.*Arctocorisa germari* (Fieber)

-

Callicorixa praeusta (Fieber)*Corixa praeusta*, Fieb.

Deleted (Ryan, 2016a):

Corixa sodalis, D. & S.

Deleted (Ryan, 2016a):

Corixa Boldi, D. & S.*Callicorixa wollastoni* (Douglas & Scott)*Corixa praeusta*, Fieb. var. *Wollastoni* D. & S.

Deleted (Ryan, 2016a & Butler, 1923):

Corixa cognata, D. & S.*Corixa affinis* Leach*Corixa atomaria*, Illig.*Corixa dentipes* Thomson

-

Corixa iberica Jansson

-

Corixa panzeri Fieber

-

Corixa punctata (Illiger)*Corixa Geoffroyi*, Leach.*Cymatia bondsdorffii* (C.R. Sahlberg)*Corixa Bondsdorffii*, Sahlb.*Cymatia coleoptrata* (Fabricius)*Corixa coleoptrata*, Fab.*Cymatia rogenhoferi* (Fieber)

-

Glaenocorisa cavifrons (Thomson)*Corixa cavifrons*, Thoms.*Glaenocorisa propinqua* (Fieber)

-

Hesperocorixa castanea (Thomson)

-

Hesperocorixa linnaei (Fieber)*Corixa Linnaei*, Fieb.*Hesperocorixa moesta* (Fieber)*Corixa moesta*, Fieb.*Hesperocorixa sahlbergi* (Fieber)*Corixa Sahlbergi*, Fieb.*Micronecta griseola* Horváth

-

Micronecta minutissima (Linnaeus)*Sigara minutissima*, Linn.*Micronecta poweri* (Douglas & Scott)

-

Micronecta scholtzi (Fieber)*Sigara Scholtzii*, Fieb.*Paracorixa concinna* (Fieber)*Corixa concinna*, D. & S.*Sigara distincta* (Fieber)*Corixa distincta*, Fieb.*Sigara dorsalis* (Leach)

-

Sigara falleni (Fieber)*Corixa Fallenii*, Fieb.*Sigara fallenioidea* (Hungerford)

-

Sigara fossarum (Leach)*Corixa fossarum*, Leach.Deleted (Butler (1923): a var. of *S. fossarum*)*Corixa prominula*, Thoms.*Sigara iactans* Jansson

-

Sigara lateralis (Leach)*Corixa hieroglyphica*, Duf.*Sigara limitata* (Fieber)*Corixa limitata*, Fieb.*Sigara longipalis* (J. Sahlberg)

-

Sigara nigrolineata (Fieber)*Corixa Fabricii*, Fieb.*Sigara scotti* (Douglas & Scott)*Corixa Scotti*, Fieb.*Sigara selecta* (Fieber)

-

Sigara semistriata (Fieber)*Corixa semistriata*, Fieb.*Sigara stagnalis* (Leach)*Corixa lugubris*, Fieb.*Sigara striata* (Linnaeus)*Corixa striata*, Fieb.*Sigara venusta* (Douglas & Scott)*Corixa venusta*, D. & S.

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**SOME OLD RECORDS FOR *BUCHANANIELLA CONTINUA* (F.B. WHITE)
(HEMIPTERA: ANTHOCORIDAE) IN OXFORD AND A NEW ONE FOR SUSSEX**

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The first British record for this species was from the garden of Buckingham Palace, Middlesex in 1995 (Kirby, 1999). The county distribution of the Hemiptera-Heteroptera of the British Isles (Ryan, 2014a & 2014b) lists 14 additional counties from which this animal has been recorded, ranging from Surrey in the south-east to Yorkshire in the north and Devon in the west. Since then, four more counties have been added to the list, filling in some of the gaps in the known distribution (Ryan, 2014c, 2016a, 2016b & 2017). One of these is Oxfordshire, based upon specimens taken in two localities in Oxford in 2013 & 2014. However, I have since found additional Oxford specimens in my collection standing amongst *Cardiastethus fasciiventris* (Garbiglietti) (Anthocoridae), the labels for these providing the following records.

16 August 2006, beating conifers and oak, University Parks, Oxford, Oxfordshire (National Grid Reference SP516073), one specimen.

5 September 2007, beating Lawson Cypress, University Parks, Oxford, Oxfordshire (SP513071), two specimens.

This means that *B. continua* was present in Oxford for at least seven years prior to my realising it was here. My records for Oxford do not go further back than this as 2006 was the first year that I collected seriously in the area.

This is not the first time the bug has been found amongst *C. fasciiventris* in a collection (Alexander, 2009), and it will be interesting to see if any more old specimens turn up, and whether the arrival of this species in Britain can be shown to be significantly earlier than 1995.

I am also able to report a twentieth county for the bug, Sussex. Two specimens were taken on 15 August 2016 sweeping the shoreline at Bosham (SU804033).

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**AN ANNOTATED CHECKLIST OF THE AMBIGUOUS SPECIES NAMES
OF HEMIPTERA-HETEROPTERA FROM SAUNDERS (1892) TO BUTLER (1923)**

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This article is a prequel to Ryan (2015 & 2016), which listed the ambiguous species names of the British Hemiptera-Heteroptera following Butler (1923). The present article lists the additional ambiguous species names that arose in the period prior to the publication of this work, and after Saunders (1892), and thereby assists in the interpretation of records published at this time. As stated previously, the significance of ambiguous species names is that once it is discovered that two distinct species have been recorded under the same name, all previous records must be discounted, unless they are supported by authenticated specimens. The additional ambiguous species names are as follows.

ARADIDAE

Aneurys laevis, Fab.

Bergroth (1915) reported that the above name had been applied to two distinct species, and that it was the new species *Aneurys avenius* (Dufour) that was the more common in England.

ACANTHOSOMATIDAE

Acanthosoma interstinctum, Linn.

This name in Saunders (1892) does not refer to the *Acanthosoma interstinctum*, L. of Butler (1923) (*Elasmotherus interstinctus* (Linnaeus) of today), but to *Elasmotherus griseus* L. (*Elasmucha grisea* (Linnaeus) of today). It is the *Acanthosoma dentatum*, De G. of Saunders that corresponds to *A. interstinctum* (*E. interstinctus*). There is clearly the potential for confusion with the use of Saunders (1892) for these insects, and I have found one clear example of this in the literature (Heslop-Harrison, 1958).

SCUTELLERIDAE

Odontoscelis fuliginosa, Linn.

When *Odontoscelis lineola* Rambur (*Odontoscelis dorsalis* Fabr. of Butler) was added to the British list (Bedwell, 1909) one specimen of it was found in a collection standing over the above name, and another was reported taken in 1888.

STENOCEPHALIDAE

Stenocephalus agilis, Scop.

When *Dicranocephalus medius* (Mulsant & Rey) was added to the British list by Butler (1911) the author commented that the species 'has long existed in our collections' standing over the above name, and gave a number of records for it from the specimens of several collectors.

LYGAEIDAE

Drymus pilicornis, Muls.

At the time of Saunders (1892), the above and *Drymus latus* Douglas & Scott were thought to be synonyms for the same species, Saunders using the above name. However, Butler (1904) showed that they were separate species, and found examples of both in collections.

MIRIDAE

Plagiognathus pulicarius, Fall.

Chlamydatus pullus (Reuter) is described in Butler (1923) and occurs in Saunders (1892) as *Plagiognathus pulicarius*, Fall. var. *pullus*, Reut. The genuine species corresponding to the above name, *Chlamydatus pulicarius* (Fallén), was not recognised as British until Campbell (1959), based upon a museum specimen collected in 1913. Saunders comments that all

specimens he has seen are var. *pullus*. Old records for the above name should not therefore be regarded as *C. pulicarius* unless traced to an authenticated specimen.

VELIIDAE

Microvelia pygmaea, Duf.

The above name refers to the *Microvelia reticulata* Burm. of Butler (1923) and not necessarily to the *Microvelia pygmaea* (Dufour) of today, which was added to the British list by Walton (1939).

CORIXIDAE

Corixa carinata, Sahlb.

The *Corixa intricata* and *Corixa Sharpi* of Douglas & Scott (1865) were described together under the above name by Saunders (1892), but separated again by Butler (1923), on the authority of Kirkaldy (1898). The species are now known as *Arctocorisa germari* (Fieber) and *Arctocorisa carinata* (C.R. Sahlberg), respectively. Clearly, as suggested by Butler, the use of the above name by Saunders is ambiguous.

Corixa atomaria, Illig. & *Corixa affinis* Leach

Butler (1923) points out that both *Corixa affinis* Leach and *Corixa panzeri* Fieber are referred to by the single name *Corixa atomaria* in Saunders (1892), and subsequently by the single name *Corixa affinis*, whereas they were previously given separate names. The above names are therefore ambiguous for the period between Saunders' and Butler's texts, and subsequently in the hands of anyone not aware of the confusion reported by Butler.

Corixa lugubris, Fieb.

The species *Corixa lugubris*, Fieb. and *Corixa Stali*, Fieb. of Douglas & Scott (1865) were described under the above single name by Saunders (1892), but separated again by Butler (1923). The two species now go by the names *Sigara stagnalis* (Leach) and *Sigara selecta* (Fieber), respectively. Clearly, there is the possibility that the use of the above name might refer to either of the aforementioned species, as suggested by Butler.

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR LANCASHIRE & ISLE OF MAN INTO VICE-COUNTY LISTS FOR VC59, VC60 AND VC71

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Introduction

The list of Hemiptera-Heteroptera for Lancashire & Isle of Man in Ryan (2014) was compiled from that of Masee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the three constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian South Lancashire (VC59), Watsonian West Lancashire (VC60) and Isle of Man (VC71).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a & 2018b). The resulting vice-county lists include 425 records, compared with 282 for the original Lancashire & Isle of Man list. The list for Lancashire & Isle of Man as a whole has shortened by 38, the decrease arising from two species added to the list and 40 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the three vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Lancashire & Isle of Man are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from Judd (2009 & 2010).

The divided records

ARADIDAE

<i>Aradus depressus</i> (Fabricius)	VC59	-	-
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ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC59	VC60	-
<i>Cyphostethus tristriatus</i> (Fabricius)	VC59	VC60	-
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC59	VC60	-
<i>Elasmucha grisea</i> (Linnaeus)	VC59	VC60	-

CYDNIDAE

<i>Sehirus luctuosus</i> Mulsant & Rey	VC59	-	-
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THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	VC59	-	-
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PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC59	VC60	-
<i>Chlorochroa juniperina</i> (Linnaeus)	VC59	-	-
<i>Dolycoris baccarum</i> (Linnaeus)	-	VC60	VC71 (8)
<i>Palomena prasina</i> (Linnaeus)	VC59	VC60	-
<i>Pentatoma rufipes</i> (Linnaeus)	VC59	VC60	-
<i>Picromerus bidens</i> (Linnaeus)	VC59	VC60	-
<i>Piezodorus lituratus</i> (Fabricius)	VC59	VC60	VC71 (8)
<i>Rhacognathus punctatus</i> (Linnaeus)	VC59	VC60	-
<i>Troilus luridus</i> (Fabricius)	VC59	VC60	-

PENTATOMIDAE (CONTINUED)

<i>Zicrona caerulea</i> (Linnaeus)	VC59	VC60	-
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COREIDAE

<i>Coriomeris denticulatus</i> (Scopoli)	-	VC60	-
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<i>Leptoglossus occidentalis</i> Heidemann	-	VC60	-
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RHOPALIDAE

<i>Chorosoma schillingii</i> (Schilling)	VC59	VC60	-
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<i>Corizus hyoscyami</i> (Linnaeus)	VC59	-	-
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<i>Myrmus miriformis</i> (Fallén)	VC59	VC60	-
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<i>Rhopalus subrufus</i> (Gmelin)	-	VC60	-
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STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli) [DELETED]	-	-	-
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LYGAEIDAE

<i>Acompus pallipes</i> (Herrich-Schaeffer) [DELETED]	-	-	-
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<i>Chilacis typhae</i> (Perris)	VC59	VC60	-
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<i>Cymus claviculus</i> (Fallén)	VC59	-	-
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<i>Cymus glandicolor</i> Hahn	VC59	VC60	-
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<i>Drymus brunneus</i> (R.F. Sahlberg)	VC59	VC60	-
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<i>Drymus ryeii</i> Douglas & Scott	-	VC60	-
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<i>Drymus sylvaticus</i> (Fabricius)	VC59	VC60	-
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<i>Gastrodes grossipes</i> (De Geer)	VC59	VC60	-
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<i>Graptopeltus lynceus</i> (Fabricius)	VC59	VC60	-
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<i>Heterogaster urticae</i> (Fabricius)	VC59	VC60	-
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<i>Ischnodemus sabuleti</i> (Fallén)	VC59	VC60	-
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<i>Kleidocerys ericae</i> (Horváth)	VC59	VC60	-
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<i>Kleidocerys resedae</i> (Panzer)	VC59	VC60	-
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<i>Lamproplax picea</i> (Flor)	-	VC60	-
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<i>Macrodema microptera</i> (Curtis)	-	VC60	-
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<i>Megalonotus chiragra</i> (Fabricius)	VC59	VC60	-
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<i>Nysius ericae</i> (Schilling)	VC59 (5)	-	-
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<i>Nysius thymi</i> (Wolff)	VC59	VC60	-
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<i>Peritrechus geniculatus</i> (Hahn)	VC59	-	-
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<i>Peritrechus lundii</i> (Gmelin)	VC59	VC60	-
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<i>Plinthisus brevipennis</i> (Latreille)	VC59	VC60	-
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<i>Scolopostethus affinis</i> (Schilling)	VC59	VC60	-
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<i>Scolopostethus decoratus</i> (Hahn)	VC59	VC60	VC71 (8)
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<i>Scolopostethus thomsoni</i> Reuter	VC59	VC60	-
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<i>Stygnocoris fuliginus</i> (Geoffroy)	VC59	VC60	VC71 (8)
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<i>Stygnocoris rusticus</i> (Fallén)	VC59	-	VC71 (10)
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<i>Stygnocoris sabulosus</i> (Schilling)	VC59	VC60	VC71 (8)
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<i>Taphropeltus contractus</i> (Herrich-Schaeffer) [DELETED]	-	-	-
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<i>Trapezonotus arenarius</i> (Linnaeus)	VC59	VC60	-
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<i>Trapezonotus desertus</i> Seidenstücker	VC59	VC60	-
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BERYTIDAE

<i>Berytinus crassipes</i> (Herrich-Schaeffer)	VC59	-	-
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<i>Berytinus minor</i> (Herrich-Schaeffer)	VC59	VC60	-
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<i>Berytinus montivagus</i> (Meyer-Dür)	-	VC60	-
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<i>Gampsocoris punctipes</i> (Germar)	VC59	VC60	-
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<i>Neides tipularius</i> (Linnaeus)	VC59	VC60	-
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PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	-	VC60	VC71 (8)
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TINGIDAE

<i>Acalypta nigrina</i> (Fallén)	-	VC60	-
<i>Acalypta parvula</i> (Fallén)	VC59	VC60	VC71 (8)
<i>Agramma laetum</i> (Fallén)	VC59	VC60	-
<i>Derephysia foliacea</i> (Fallén)	-	VC60	-
<i>Dictyla convergens</i> (Herrich-Schaeffer)	-	VC60	-
<i>Dictyonota strichnocera</i> Fieber	VC59	-	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	-	VC60	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	-	VC60	-
<i>Tingis cardui</i> (Linnaeus)	VC59	VC60	VC71 (8)

REDUVIIDAE

<i>Coranus subapterus</i> (De Geer) [DELETED]	-	-	-
<i>Empicoris culiciformis</i> (De Geer) [DELETED]	-	-	-
<i>Empicoris vagabundus</i> (Linnaeus)	VC59 (7)	VC60	-
<i>Reduvius personatus</i> (Linnaeus)	VC59	-	-

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	-	VC60	-
<i>Himacerus major</i> (A. Costa)	VC59	VC60	-
<i>Nabis ericetorum</i> Scholtz	VC59	VC60	-
<i>Nabis ferus</i> (Linnaeus)	VC59	VC60	VC71 (8)
<i>Nabis flavomarginatus</i> Scholtz	VC59	VC60	-
<i>Nabis limbatus</i> Dahlbom	VC59	VC60	-
<i>Nabis rugosus</i> (Linnaeus)	VC59	VC60	VC71 (8)
<i>Prostemma guttula</i> (Fabricius) [DELETED]	-	-	-

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	-	VC60	-
<i>Acompocoris pygmaeus</i> (Fallén)	VC59	-	-
<i>Anthocoris confusus</i> Reuter	VC59	VC60	-
<i>Anthocoris gallarumulmi</i> (De Geer) [DELETED]	-	-	-
<i>Anthocoris nemoralis</i> (Fabricius)	VC59	VC60	VC71 (8)
<i>Anthocoris nemorum</i> (Linnaeus)	VC59	VC60	VC71 (8)
<i>Anthocoris sarothamni</i> Douglas & Scott [NEW]	-	-	VC71 (8)
<i>Elatophilus nigricornis</i> (Zetterstedt)	-	VC60	-
<i>Lyctocoris campestris</i> (Fabricius)	VC59	-	-
<i>Orius majusculus</i> (Reuter)	VC59	-	-
<i>Orius vicinus</i> (Ribaut)	VC59 (7)	-	-
<i>Temnostethus gracilis</i> Horváth	-	VC60	-
<i>Xylocoris cursitans</i> (Fallén) [DELETED]	-	-	-
<i>Xylocoris galactinus</i> (Fieber)	VC59	-	-

CIMICIDAE

<i>Cimex lectularius</i> Linnaeus [DELETED]	-	-	-
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MICROPHYSIDAE

<i>Loricula elegantula</i> (Baerensprung)	VC59	VC60	-
<i>Loricula pselaphiformis</i> Curtis	VC59 (6)	-	-

MIRIDAE

<i>Adelphocoris lineolatus</i> (Goeze)	VC59	VC60	-
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MIRIDAE (CONTINUED)

<i>Alloeotomus gothicus</i> (Fallén)	-	VC60	-
<i>Amblytylus brevicollis</i> Fieber [DELETED]	-	-	-
<i>Apolygus lucorum</i> (Meyer-Dür)	VC59	VC60	-
<i>Apolygus spinolae</i> (Meyer-Dür)	VC59	-	-
<i>Asciodema obsoleta</i> (Fieber)	VC59 (5)	-	-
<i>Blepharidopterus angulatus</i> (Fallén)	VC59	-	VC71 (8)
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	VC59 (5)	-	-
<i>Bryocoris pteridis</i> (Fallén)	VC59	VC60	-
<i>Calocoris alpestris</i> (Meyer-Dür)	VC59	VC60	-
<i>Calocoris roseomaculatus</i> (De Geer)	VC59	-	-
<i>Camptozygum aequale</i> (Villers)	VC59	-	-
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	VC59	VC60	-
<i>Capsus ater</i> (Linnaeus)	VC59	VC60	-
<i>Chlamydatus pullus</i> (Reuter) [DELETED]	-	-	-
<i>Chlamydatus saltitans</i> (Fallén)	VC59 (5)	-	-
<i>Closterotomus fulvomaculatus</i> (De Geer) [DELETED]	-	-	-
<i>Closterotomus norwegicus</i> (Gmelin)	VC59	-	-
<i>Compsidolon salicellum</i> (Herrich-Schaeffer) [DELETED]	-	-	-
<i>Conostethus griseus</i> Douglas & Scott [DELETED]	-	-	-
<i>Conostethus roseus</i> (Fallén) [DELETED]	-	-	-
<i>Cyllocoris histrionius</i> (Linnaeus)	VC59	VC60	-
<i>Cyrtorhinus caricis</i> (Fallén)	VC59	-	-
<i>Deraeocoris flavilinea</i> (A. Costa)	VC59	VC60 (13)	-
<i>Deraeocoris lutescens</i> (Schilling)	VC59	VC60	-
<i>Deraeocoris ruber</i> (Linnaeus)	VC59	VC60	-
<i>Dichroscytus rufipennis</i> (Fallén) [DELETED]	-	-	-
<i>Dicyphus annulatus</i> (Wolff)	VC59	VC60	-
<i>Dicyphus constrictus</i> (Boheman) [DELETED]	-	-	-
<i>Dicyphus epilobii</i> Reuter	VC59	VC60	-
<i>Dicyphus errans</i> (Wolff)	VC59	VC60	-
<i>Dicyphus globulifer</i> (Fallén)	VC59	-	-
<i>Dicyphus pallicornis</i> (Fieber)	VC59	VC60	-
<i>Dicyphus stachydis</i> J. Sahlberg	-	VC60	-
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	VC59	VC60	-
<i>Europiella artemisiae</i> (Becker) [DELETED]	-	-	-
<i>Globiceps flavomaculatus</i> (Fabricius) [DELETED]	-	-	-
<i>Globiceps fulvicollis</i> Jakovlev	VC59	VC60	-
<i>Grypocoris stysi</i> (Wagner)	VC59	VC60	VC71 (11)
<i>Halticus saltator</i> (Geoffroy) [DELETED]	-	-	-
<i>Harpocera thoracica</i> (Fallén)	VC59	VC60	-
<i>Heterocordylus genistae</i> (Scopoli)	-	VC60	-
<i>Heterocordylus tibialis</i> (Hahn)	VC59	-	-
<i>Heterotoma planicornis</i> (Pallas)	VC59	VC60	-
<i>Leptopterna dolabrata</i> (Linnaeus)	VC59	VC60	-
<i>Leptopterna ferrugata</i> (Fallén)	VC59	-	-
<i>Liocoris tripustulatus</i> (Fabricius)	VC59	VC60	-
<i>Lopus decolor</i> (Fallén)	VC59	-	-
<i>Lygocoris pabulinus</i> (Linnaeus)	VC59	VC60	VC71 (8)
<i>Lygocoris rugicollis</i> (Fallén)	VC59	-	-
<i>Lygus maritimus</i> Wagner	VC59	-	-
<i>Lygus rugulipennis</i> Poppius	VC59	VC60	-
<i>Macrolophus pygmaeus</i> (Rambur) [DELETED]	-	-	-
<i>Macrotylus paykullii</i> (Fallén)	VC59	VC60	-
<i>Malacocoris chlorizans</i> (Panzer) [DELETED]	-	-	-

MIRIDAE (CONTINUED)

<i>Mecomma ambulans</i> (Fallén)	VC59	VC60	VC71 (8)
<i>Mecomma dispar</i> (Boheman)	VC59 (5)	-	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	-	VC60	-
<i>Miris striatus</i> (Linnaeus)	-	VC60	-
<i>Monalocoris filicis</i> (Linnaeus)	VC59	VC60	VC71 (8)
<i>Monosynamma sabulicola</i> (Wagner)	VC59	VC60	-
<i>Neolygus contaminatus</i> (Fallén)	VC59	VC60	-
<i>Neolygus viridis</i> (Fallén)	VC59	VC60	-
<i>Notostira elongata</i> (Geoffroy)	VC59	-	VC71 (8)
<i>Orthocephalus coriaceus</i> (Fabricius) [DELETED]	-	-	-
<i>Orthocephalus saltator</i> (Hahn) [DELETED]	-	-	-
<i>Orthops campestris</i> (Linnaeus)	VC59	VC60	-
<i>Orthotylus ericetorum</i> (Fallén)	VC59	-	-
<i>Orthotylus flavinervis</i> (Kirschbaum)	VC59	-	-
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC59	-	-
<i>Orthotylus marginalis</i> Reuter	VC59	-	-
<i>Orthotylus ochrotrichus</i> Fieber	VC59 (5)	-	-
<i>Orthotylus tenellus</i> (Fallén)	VC59 (5)	-	-
<i>Orthotylus virescens</i> (Douglas & Scott)	VC59	-	-
<i>Pantilius tunicatus</i> (Fabricius)	VC59	VC60	-
<i>Phoenicocoris obscurellus</i> (Fallén)	VC59	-	-
<i>Phylus coryli</i> (Linnaeus)	-	VC60	-
<i>Phylus melanocephalus</i> (Linnaeus)	VC59 (5)	VC60	-
<i>Phytocoris dimidiatus</i> Kirschbaum	VC59	-	-
<i>Phytocoris longipennis</i> Flor	VC59	VC60	-
<i>Phytocoris pini</i> Kirschbaum	-	VC60	-
<i>Phytocoris populi</i> (Linnaeus)	VC59	VC60	-
<i>Phytocoris reuteri</i> Saunders	VC59	VC60	-
<i>Phytocoris tiliae</i> (Fabricius)	VC59	VC60	-
<i>Phytocoris ulmi</i> (Linnaeus)	VC59	VC60	-
<i>Phytocoris varipes</i> Boheman	VC59	VC60	-
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	-	VC60	-
<i>Pilophorus clavatus</i> (Linnaeus)	VC59	-	-
<i>Pilophorus perplexus</i> Douglas & Scott [DELETED]	-	-	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC59	VC60	VC71 (8)
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC59	VC60	-
<i>Plagiognathus arbustorum</i> (Fabricius)	VC59	VC60	-
<i>Plagiognathus chrysanthemi</i> (Wolff)	VC59	-	-
<i>Platycranus bicolor</i> (Douglas & Scott)	VC59	-	-
<i>Plesiodema pinetella</i> (Zetterstedt)	VC59	-	-
<i>Polymerus nigrita</i> (Fallén)	VC59	VC60	-
<i>Polymerus palustris</i> (Reuter)	VC59	VC60	-
<i>Polymerus unifasciatus</i> (Fabricius) [DELETED]	-	-	-
<i>Psallus ambiguus</i> (Fallén)	VC59	VC60	-
<i>Psallus confusus</i> Rieger [DELETED]	-	-	-
<i>Psallus falleni</i> Reuter	VC59	-	-
<i>Psallus haematodes</i> (Gmelin)	VC59	VC60	-
<i>Psallus mollis</i> (Mulsant & Rey) [DELETED]	-	-	-
<i>Psallus salicis</i> (Kirschbaum) [DELETED]	-	-	-
<i>Psallus varians</i> (Herrich-Schaeffer)	VC59	VC60	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	-	VC60	-
<i>Rhabdomiris striatellus</i> (Fabricius)	VC59	VC60	-
<i>Salicarus roseri</i> (Herrich-Schaeffer) [DELETED]	-	-	-
<i>Stenodema calcarata</i> (Fallén)	VC59	VC60	VC71 (8)

MIRIDAE (CONTINUED)

<i>Stenodema holsata</i> (Fabricius)	VC59	-	-
<i>Stenodema laevigata</i> (Linnaeus)	VC59	VC60	VC71 (8)
<i>Stenotus binotatus</i> (Fabricius)	VC59	-	-
<i>Sthenarus rotermundi</i> (Scholtz)	VC59	-	-
<i>Systellonotus triguttatus</i> (Linnaeus)	VC59	-	-
<i>Teratocoris saundersi</i> Douglas & Scott [DELETED]	-	-	-
<i>Teratocoris viridis</i> Douglas & Scott [DELETED]	-	-	-
<i>Tinicephalus hortulanus</i> (Meyer-Dür) [DELETED]	-	-	-
<i>Trigonotylus psammaecolor</i> Reuter	VC59	-	-
<i>Trigonotylus ruficornis</i> (Geoffroy)	VC59	VC60	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	VC59	-	-

CERATOCOMBIDAE

<i>Ceratocombus coleopratus</i> (Zetterstedt)	VC59	-	-
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DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	-	VC60	-
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC59	VC60	-
<i>Chartoscirta cocksii</i> (Curtis) [DELETED]	-	-	-
<i>Chartoscirta elegantula</i> (Fallén)	-	VC60	-
<i>Chiloxanthus pilosus</i> (Fallén)	-	VC60	-
<i>Halosalda lateralis</i> (Fallén)	-	VC60	-
<i>Macrosaldula scotica</i> (Curtis)	-	VC60	-
<i>Salda littoralis</i> (Linnaeus)	VC59	VC60	-
<i>Salda morio</i> Zetterstedt [DELETED]	-	-	-
<i>Salda muelleri</i> (Gmelin)	-	VC60	-
<i>Saldula c-album</i> (Fieber)	-	VC60	-
<i>Saldula orthochila</i> (Fieber)	VC59	-	-
<i>Saldula pallipes</i> (Fabricius) [DELETED]	-	-	-
<i>Saldula palustris</i> (Douglas)	-	VC60	-
<i>Saldula pilosella</i> (Thomson) [DELETED]	-	-	-
<i>Saldula saltatoria</i> (Linnaeus)	VC59	VC60	VC71 (8)

AEOPHILIDAE

<i>Aepophilus bonnairei</i> Signoret	-	-	VC71 (2)
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HEBRIDAE

<i>Hebrus ruficeps</i> Thomson	-	-	VC71 (3)
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HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus)	VC59	VC60	VC71 (3)
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VELIIDAE

<i>Microvelia reticulata</i> (Burmeister)	VC59	-	VC71 (1)
<i>Velia caprai</i> Tamanini	VC59	VC60	VC71 (3)
<i>Velia saulii</i> Tamanini	-	VC60 (3)	-

GERRIDAE

<i>Aquarius najas</i> (De Geer)	-	-	VC71 (3)
<i>Gerris argentatus</i> Schummel [DELETED]	-	-	-
<i>Gerris costae</i> (Herrich-Schaeffer)	VC59	-	-
<i>Gerris gibbifer</i> Schummel	VC59	-	VC71 (3)

GERRIDAE (*CONTINUED*)

<i>Gerris lacustris</i> (Linnaeus)	VC59	VC60	VC71 (3)
<i>Gerris lateralis</i> Schummel	VC59	-	-
<i>Gerris odontogaster</i> (Zetterstedt)	VC59	VC60	VC71 (12)
<i>Gerris thoracicus</i> Schummel	VC59	VC60	VC71 (3)

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	VC59	VC60	VC71 (1)
<i>Ranatra linearis</i> (Linnaeus)	VC59	-	-

NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	VC59	VC60	-
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	VC59	VC60	VC71 (3)
<i>Notonecta maculata</i> Fabricius	VC59	-	-
<i>Notonecta obliqua</i> Thunberg	VC59	-	-
<i>Notonecta viridis</i> Delcourt	VC59	VC60	VC71 (3)

PLEIDAE

<i>Plea minutissima</i> Leach	VC59	VC60	VC71 (1)
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CORIXIDAE

<i>Arctocorisa carinata</i> (C.R. Sahlberg) [NEW]	VC59 (9)	-	-
<i>Arctocorisa germari</i> (Fieber)	VC59	VC60	VC71 (3)
<i>Callicorixa praeusta</i> (Fieber)	VC59	VC60	VC71 (3)
<i>Callicorixa wollastoni</i> (Douglas & Scott)	VC59	-	-
<i>Corixa dentipes</i> Thomson	VC59	-	-
<i>Corixa panzeri</i> Fieber	VC59	VC60	VC71 (3)
<i>Corixa punctata</i> (Illiger)	VC59	VC60	VC71 (3)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	VC59	-	-
<i>Glaenocorisa cavifrons</i> (Thomson)	VC59 (4)	-	-
<i>Hesperocorixa castanea</i> (Thomson)	-	-	VC71 (3)
<i>Hesperocorixa linnaei</i> (Fieber)	VC59	VC60	-
<i>Hesperocorixa moesta</i> (Fieber)	VC59	-	VC71 (10)
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC59	VC60	VC71 (3)
<i>Micronecta poweri</i> (Douglas & Scott) [DELETED]	-	-	-
<i>Paracorixa concinna</i> (Fieber)	VC59	VC60	VC71 (3)
<i>Sigara distincta</i> (Fieber)	VC59	VC60	VC71 (3)
<i>Sigara dorsalis</i> (Leach)	VC59	VC60	VC71 (3)
<i>Sigara falleni</i> (Fieber)	VC59	VC60	VC71 (3)
<i>Sigara fossarum</i> (Leach)	VC59	VC60	VC71 (3)
<i>Sigara lateralis</i> (Leach)	VC59	VC60	VC71 (3)
<i>Sigara limitata</i> (Fieber)	VC59	-	-
<i>Sigara nigrolineata</i> (Fieber)	VC59	VC60	VC71 (3)
<i>Sigara scotti</i> (Douglas & Scott)	VC59	-	VC71 (3)
<i>Sigara selecta</i> (Fieber) [DELETED]	-	-	-
<i>Sigara semistriata</i> (Fieber)	VC59	VC60	VC71 (1)
<i>Sigara stagnalis</i> (Leach)	VC59	VC60	-
<i>Sigara venusta</i> (Douglas & Scott)	VC59	VC60	VC71 (3)

In addition to the above, a record was found for *Psallus mollis* (Mulsant & Rey) from Furness (Woodroffe, 1957), part of the Lancashire & Isle of Man region but located in Watsonian Westmoreland (VC69). The bug is new to this vice-county.

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Foster & Huxley (2007)	(8) Mason (1898)
(2) Green (1955)	(9) Popham (1952)
(3) Huxley (2003)	(10) Massee (1946)
(4) Popham (1954)	(11) Chalmers-Hunt (1968)
(5) Sanderson (1992)	(12) Brinkhurst (1959)
(6) Scudder (1957)	(13) Flanagan (2014)
(7) Whitehead (2005)	

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I am most grateful to Steve Judd for helpful comments during the course of my research for this article, and for providing a copy of Judd (2009 & 2010), which I was otherwise unable to obtain.

THE HEMIPTERIST IS NOW IN PRINT

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Each of the eight previous issues of this journal asserted that 'Completed volumes are printed, hard-bound and deposited in the main entomological libraries of the British Isles, in order to provide a permanent record.' The original aim was, when a sufficient number of volumes had been published, to bind them 'thesis-style' and to distribute these as promised. However, it recently occurred to me that it may be better to bind the individual volumes separately in card, in a similar manner to other journals, and distribute them on a more ongoing basis.

This has now been done for volumes 1 to 4, and bound copies may be found at the following locations: the British Library; the five other copyright libraries (Oxford, Cambridge, Aberystwyth, Edinburgh and Dublin); and the libraries of the Linnean Society, Royal Entomological Society, British Entomology and Natural History Society, Natural History Museum and Oxford University Museum. Future volumes will be printed and bound similarly and distributed to these institutions when ready. Digital copies will, of course, still be available for download from the journal webpage (<https://sites.google.com/site/thehemipterist/>).

I am most grateful to Gail Howland, ISSN UK Centre, British Library for helpful advice and for efficiently arranging the allocation of ISSNs for this journal; and to Brett Scarrott, Bodleian Libraries, Oxford for kindly forwarding the copyright copies to the Agency for the Legal Deposit Libraries, greatly reducing my postage costs. Thanks also go to the librarians of the aforementioned institutions for agreeing to add the printed journal to their collections.

THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR SUFFOLK INTO VICE-COUNTY LISTS FOR VC25 AND VC26

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Introduction

The list of Hemiptera-Heteroptera for Suffolk in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian East Suffolk (VC25) and Watsonian West Suffolk (VC26).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a & 2018b). The resulting vice-county lists include 561 records, compared with 358 for the original Suffolk list. The list for Suffolk as a whole has lengthened by 15, the increase arising from 34 species added to the list and 19 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Suffolk are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from Morley (1905).

The source for Morley's text was the website of the Biodiversity Heritage library (<https://www.biodiversitylibrary.org/>), which included additional handwritten records. Those for *Brachyarthrum limitatum* Fieber included the comment 'The first British specimen was left unnamed by me in the original list of 1905', suggesting that the handwritten records are those of Morley himself. I have therefore included these in the lists below, marked (A).

The divided records

ARADIDAE

<i>Aneurus avenius</i> (Dufour) [NEW]	VC26 (54)	-
<i>Aneurus laevis</i> (Fabricius) [DELETED]	-	-
<i>Aradus depressus</i> (Fabricius)	VC26	VC25

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC26	VC25
<i>Cyphostethus tristriatus</i> (Fabricius) [NEW]	VC26	VC25
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC26	VC25
<i>Elasmucha grisea</i> (Linnaeus)	VC26	VC25

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	VC26	VC25
<i>Legnotus limbosus</i> (Geoffroy)	VC26 (33)	VC25
<i>Legnotus picipes</i> (Fallén) [NEW]	VC26 (33)	-
<i>Sehirus luctuosus</i> Mulsant & Rey	VC26 (A)	VC25 (33)
<i>Tritomegas bicolor</i> (Linnaeus)	VC26	VC25

SCUTELLERIDAE

<i>Eurygaster maura</i> (Linnaeus) [DELETED]	-	-
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SCUTELLERIDAE (CONTINUED)

<i>Eurygaster testudinaria</i> (Geoffroy)	VC26 (33)	VC25 (33)
<i>Odontoscelis fuliginosa</i> (Linnaeus)	-	VC25 (35)
<i>Odontoscelis lineola</i> Rambur	VC26 (33)	VC25 (A)

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus) [NEW]	VC26 (54)	-
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PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC26	VC25
<i>Dolycoris baccarum</i> (Linnaeus)	VC26	VC25
<i>Eurydema oleracea</i> (Linnaeus) [NEW]	VC26 (54)	VC25 (24)
<i>Eysarcoris aeneus</i> (Scopoli)	VC26 (36)	-
<i>Eysarcoris venustissimus</i> (Schrank)	VC26 (33)	VC25 (33)
<i>Neottiglossa pusilla</i> (Gmelin)	VC26 (A)	VC25 (A)
<i>Palomena prasina</i> (Linnaeus)	VC26	VC25
<i>Pentatoma rufipes</i> (Linnaeus)	VC26	VC25
<i>Peribalus strictus</i> (Fabricius)	-	VC25
<i>Picromerus bidens</i> (Linnaeus)	VC26 (33)	VC25
<i>Piezodorus lituratus</i> (Fabricius)	VC26 (33)	VC25
<i>Podops inunctus</i> (Fabricius)	VC26	VC25
<i>Rhacognathus punctatus</i> (Linnaeus)	VC26 (A)	VC25 (33)
<i>Troilus luridus</i> (Fabricius)	VC26	VC25
<i>Zicrona caerulea</i> (Linnaeus) [NEW]	VC26 (33)	VC25 (33)

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	VC26	-
<i>Arenocoris waltlii</i> (Herrich-Schaeffer)	VC26 (1)	VC25 (2)
<i>Bathysolen nubilus</i> (Fallén)	VC26 (37)	-
<i>Coreus marginatus</i> (Linnaeus)	-	VC25
<i>Coriomeris denticulatus</i> (Scopoli)	VC26	VC25
<i>Gonocerus acuteangulatus</i> (Goeze) [NEW]	VC26 (54)	-
<i>Leptoglossus occidentalis</i> Heidemann	-	VC25 (38)
<i>Spathocera dalmanii</i> (Schilling)	-	VC25
<i>Syromastus rhombeus</i> (Linnaeus)	VC26	VC25 (3)

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	VC26 (37)	VC25 (39)
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RHOPALIDAE

<i>Brachycarenum tigrinus</i> (Schilling)	-	VC25 (34)
<i>Chorosoma schillingii</i> (Schilling)	VC26 (32)	VC25
<i>Corizus hyoscyami</i> (Linnaeus)	-	VC25 (34)
<i>Liorhyssus hyalinus</i> (Fabricius)	VC26 (4)	-
<i>Myrmus miriformis</i> (Fallén)	VC26	VC25
<i>Rhopalus maculatus</i> (Fieber) [DELETED]	-	-
<i>Rhopalus parumpunctatus</i> Schilling	VC26	-
<i>Rhopalus rufus</i> Schilling	VC26 (21)	-
<i>Rhopalus subrufus</i> (Gmelin)	VC26	-
<i>Stictopleurus abutilon</i> (Rossi) [NEW]	VC26 (54)	-
<i>Stictopleurus punctattonervosus</i> (Goeze)	VC26 (5)	-

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus)	-	VC25
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LYGAEIDAE

<i>Acompus rufipes</i> (Wolff)	VC26	VC25
<i>Aphanus rolandri</i> (Linnaeus)	-	VC25 (34)
<i>Chilacis typhae</i> (Perris)	-	VC25
<i>Cymus claviculus</i> (Fallén)	-	VC25
<i>Cymus glandicolor</i> Hahn	VC26	VC25
<i>Cymus melanocephalus</i> Fieber [NEW]	VC26 (56)	-
<i>Drymus brunneus</i> (R.F. Sahlberg)	VC26	VC25
<i>Drymus latus</i> Douglas & Scott	VC26	-
<i>Drymus ryeii</i> Douglas & Scott [NEW]	VC26 (54)	VC25 (31)
<i>Drymus sylvaticus</i> (Fabricius)	VC26 (6)	VC25
<i>Eremocoris podagricus</i> (Fabricius) [NEW]	VC26 (54)	-
<i>Gastrodes abietum</i> Bergroth	-	VC25 (24)
<i>Gastrodes grossipes</i> (De Geer)	VC26	VC25
<i>Graptopeltus lynceus</i> (Fabricius)	VC26 (7)	VC25
<i>Heterogaster artemisiae</i> Schilling	VC26 (36)	-
<i>Heterogaster urticae</i> (Fabricius)	VC26	VC25
<i>Ischnocoris angustulus</i> (Boheman)	VC26	VC25
<i>Ischnodemus sabuleti</i> (Fallén)	VC26 (55)	VC25 (39)
<i>Kleidocerys ericae</i> (Horváth)	VC26	VC25
<i>Kleidocerys resedae</i> (Panzer)	VC26	VC25
<i>Lamproplax picea</i> (Flor) [NEW]	VC26 (20)	-
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	-	VC25
<i>Macrodema microptera</i> (Curtis)	-	VC25
<i>Megalonotus chiragra</i> (Fabricius) [NEW]	VC26 (54)	-
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	VC26 (6)	VC25
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	VC26	VC25 (22)
<i>Megalonotus sabulicola</i> (Thomson)	VC26 (6)	VC25 (40)
<i>Nysius ericae</i> (Schilling)	VC26 (8)	-
<i>Nysius huttoni</i> F.B. White	-	VC25 (9)
<i>Nysius senecionis</i> (Schilling) [NEW]	VC26 (54)	-
<i>Nysius thymi</i> (Wolff) [DELETED]	-	-
<i>Ortholomus punctipennis</i> (Herrich-Schaeffer)	VC26 (10)	-
<i>Pachybrachius fracticollis</i> (Schilling)	VC26 (A)	-
<i>Peritrechus convivus</i> (Stål) [NEW]	-	VC25
<i>Peritrechus geniculatus</i> (Hahn)	VC26 (6)	VC25
<i>Peritrechus lundii</i> (Gmelin)	VC26 (6)	-
<i>Peritrechus nubilus</i> (Fallén)	-	VC25
<i>Plinthisus brevipennis</i> (Latreille)	VC26	VC25
<i>Raglius alboacuminatus</i> (Goeze)	-	VC25
<i>Scolopostethus affinis</i> (Schilling)	VC26	VC25
<i>Scolopostethus decoratus</i> (Hahn)	-	VC25
<i>Scolopostethus grandis</i> Horváth [NEW]	VC26 (54)	-
<i>Scolopostethus puberulus</i> Horváth	-	VC25
<i>Scolopostethus thomsoni</i> Reuter	VC26	VC25
<i>Sphragisticus nebulosus</i> (Fallén)	VC26 (41)	-
<i>Stygnocoris fuliginus</i> (Geoffroy)	-	VC25
<i>Stygnocoris rusticus</i> (Fallén)	VC26	VC25
<i>Stygnocoris sabulosus</i> (Schilling)	VC26	VC25
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	-	VC25
<i>Trapezonotus arenarius</i> (Linnaeus)	VC26 (42)	VC25 (42)
<i>Trapezonotus desertus</i> Seidenstücker	VC26 (42)	-
<i>Trapezonotus dispar</i> Stål [NEW]	VC26 (42)	-

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius)	VC26 (A)	VC25 (31)
<i>Berytinus crassipes</i> (Herrich-Schaeffer)	VC26 (7)	VC25
<i>Berytinus minor</i> (Herrich-Schaeffer)	VC26	VC25
<i>Berytinus montivagus</i> (Meyer-Dür)	VC26	VC25
<i>Berytinus signoreti</i> (Fieber)	VC26	VC25
<i>Gampsocoris punctipes</i> (Germar)	VC26	VC25
<i>Metatropis rufescens</i> (Herrich-Schaeffer) [NEW]	-	VC25 (23)
<i>Neides tipularius</i> (Linnaeus)	VC26 (7)	VC25

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	-	VC25
<i>Piesma maculatum</i> (Laporte)	VC26	VC25

TINGIDAE

<i>Acalypta parvula</i> (Fallén)	VC26	VC25
<i>Acalypta platycheila</i> (Fieber)	VC26 (11)	-
<i>Agramma laetum</i> (Fallén)	VC26	VC25
<i>Derephysia foliacea</i> (Fallén)	VC26 (55)	VC25
<i>Dictyla convergens</i> (Herrich-Schaeffer)	VC26	VC25
<i>Dictyonota fuliginosa</i> A. Costa	VC26 (A)	-
<i>Dictyonota strichnocera</i> Fieber	-	VC25
<i>Kalama tricornis</i> (Schränk)	VC26	VC25
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	VC26	VC25
<i>Stephanitis rhododendri</i> Horváth [DELETED]	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	VC26	VC25
<i>Tingis cardui</i> (Linnaeus)	VC26	VC25
<i>Tingis reticulata</i> Herrich-Schaeffer	-	VC25

REDUVIIDAE

<i>Coranus subapterus</i> (De Geer) [DELETED]	-	-
<i>Coranus woodroffei</i> P.V. Putshkov [NEW]	VC26 (58)	-
<i>Empicoris culiciformis</i> (De Geer)	VC26	-
<i>Empicoris vagabundus</i> (Linnaeus)	-	VC25
<i>Reduvius personatus</i> (Linnaeus)	VC26	VC25

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	VC26 (12)	VC25
<i>Himacerus boops</i> (Schjødte)	VC26	VC25
<i>Himacerus major</i> (A. Costa)	VC26	VC25
<i>Himacerus mirmicoides</i> (O. Costa)	-	VC25
<i>Nabis ericetorum</i> Scholtz	VC26	VC25
<i>Nabis fesus</i> (Linnaeus)	VC26 (55)	-
<i>Nabis flavomarginatus</i> Scholtz	VC26	VC25
<i>Nabis limbatus</i> Dahlbom	VC26	VC25
<i>Nabis lineatus</i> Dahlbom	-	VC25
<i>Nabis pseudoferus</i> Remane	VC26 (8)	VC25 (43)
<i>Nabis rugosus</i> (Linnaeus)	VC26	VC25

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	VC26 (25)	VC25
<i>Acompocoris pygmaeus</i> (Fallén)	VC26 (6)	VC25
<i>Anthocoris amplicollis</i> Horváth [NEW]	VC26 (54)	-
<i>Anthocoris confusus</i> Reuter	VC26	-
<i>Anthocoris gallarumulmi</i> (De Geer) [DELETED]	-	-

ANTHOCORIDAE (CONTINUED)

<i>Anthocoris nemoralis</i> (Fabricius)	VC26	VC25
<i>Anthocoris nemorum</i> (Linnaeus)	VC26 (12)	-
<i>Anthocoris sarothamni</i> Douglas & Scott	VC26	-
<i>Anthocoris simulans</i> Reuter [NEW]	VC26 (57)	-
<i>Buchananiella continua</i> (F.B. White) [NEW]	VC26 (54)	-
<i>Brachysteles parvicornis</i> (A. Costa)	-	VC25
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	VC26	VC25
<i>Dufouriellus ater</i> (Dufour)	-	VC25
<i>Elatophilus nigricornis</i> (Zetterstedt)	VC26 (44)	-
<i>Lyctocoris campestris</i> (Fabricius)	VC26	VC25
<i>Orius laevigatus</i> (Fieber)	-	VC25 (13)
<i>Orius majusculus</i> (Reuter)	VC26 (6)	VC25 (13)
<i>Orius niger</i> (Wolff)	VC26 (13)	-
<i>Temnostethus gracilis</i> Horváth	-	VC25 (45)
<i>Temnostethus pusillus</i> (Herrich-Schaeffer) [NEW]	VC26 (54)	-
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	VC26	VC25
<i>Xylocoridea brevipennis</i> Reuter	-	VC25
<i>Xylocoris cursitans</i> (Fallén)	VC26	-
<i>Xylocoris galactinus</i> (Fieber)	VC26 (26)	VC25

CIMICIDAE

<i>Cimex columbarius</i> Jenyns [DELETED]	-	-
<i>Cimex lectularius</i> Linnaeus [DELETED]	-	-
<i>Cimex pipistrelli</i> Jenyns [NEW]	VC26 (56)	VC25 (27)
<i>Oeciacus hirundinis</i> (Lamarck)	-	VC25 (39)

MICROPHYSIDAE

<i>Loricula coleoptrata</i> (Fallén) [DELETED]	-	-
<i>Loricula distinguenda</i> (Reuter)	VC26 (31)	VC25 (31)
<i>Loricula elegantula</i> (Baerensprung)	-	VC25
<i>Loricula exilis</i> (Fallén)	-	VC25
<i>Loricula inconspicua</i> (Douglas & Scott)	-	VC25
<i>Loricula pselaphiformis</i> Curtis	VC26	-

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	VC26 (28)	VC25
<i>Adelphocoris lineolatus</i> (Goeze)	VC26	VC25
<i>Adelphocoris ticinensis</i> (Meyer-Dür)	VC26 (12)	-
<i>Agnocoris reclairei</i> (Wagner)	VC26 (46)	-
<i>Alloeotomus gothicus</i> (Fallén)	VC26 (14)	-
<i>Amblytylus delicatus</i> (Perris) [DELETED]	-	-
<i>Amblytylus nasutus</i> (Kirschbaum)	-	VC25
<i>Apolygus limbatus</i> (Fallén) [DELETED]	-	-
<i>Apolygus lucorum</i> (Meyer-Dür)	VC26	VC25
<i>Apolygus spinolae</i> (Meyer-Dür)	VC26 (55)	VC25
<i>Asciodema obsoleta</i> (Fieber)	-	VC25
<i>Atractotomus magnicornis</i> (Fallén)	-	VC25
<i>Atractotomus mali</i> (Meyer-Dür)	-	VC25
<i>Blepharidopterus angulatus</i> (Fallén)	VC26	VC25
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	VC26	VC25
<i>Brachyarthrurum limitatum</i> Fieber	-	VC25 (A)
<i>Calocoris roseomaculatus</i> (De Geer)	VC26	VC25
<i>Camptozygum aequale</i> (Villers)	-	VC25
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	VC26	VC25

MIRIDAE (CONTINUED)

<i>Capsodes flavomarginatus</i> (Donovan)	-	VC25
<i>Capsodes gothicus</i> (Linnaeus)	VC26 (55)	VC25
<i>Capsus ater</i> (Linnaeus)	VC26 (55)	-
<i>Charagochilus gyllenhalii</i> (Fallén)	VC26	VC25
<i>Chlamydatus pulicarius</i> (Fallén)	VC26 (47)	-
<i>Chlamydatus pullus</i> (Reuter)	VC26	VC25
<i>Chlamydatus saltitans</i> (Fallén)	VC26 (7)	VC25
<i>Chlamydatus wilkinsoni</i> (Douglas & Scott) [DELETED]	-	-
<i>Closterotomus fulvomaculatus</i> (De Geer)	-	VC25
<i>Closterotomus norwegicus</i> (Gmelin)	VC26 (29)	-
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	-	VC25
<i>Conostethus roseus</i> (Fallén)	VC26 (55)	VC25
<i>Cyllecoris histrionius</i> (Linnaeus)	VC26	VC25
<i>Cyrtorhinus caricis</i> (Fallén)	-	VC25
<i>Deraeocoris flavilinea</i> (A. Costa) [NEW]	VC26 (54)	-
<i>Deraeocoris lutescens</i> (Schilling)	VC26	VC25
<i>Deraeocoris ruber</i> (Linnaeus)	VC26	VC25
<i>Dichroscytus rufipennis</i> (Fallén)	-	VC25
<i>Dicyphus annulatus</i> (Wolff)	VC26	VC25
<i>Dicyphus epilobii</i> Reuter	VC26 (55)	-
<i>Dicyphus errans</i> (Wolff)	-	VC25
<i>Dicyphus globulifer</i> (Fallén)	VC26 (7)	VC25
<i>Dicyphus pallicornis</i> (Fieber)	-	VC25
<i>Dicyphus stachydis</i> J. Sahlberg	VC26	VC25
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	VC26	VC25
<i>Europiella artemisiae</i> (Becker) [NEW]	VC26 (54)	-
<i>Europiella decolor</i> (Uhler)	-	VC25 (48)
<i>Fieberocapsus flaveolus</i> (Reuter)	-	VC25
<i>Globiceps flavomaculatus</i> (Fabricius)	-	VC25
<i>Grypocoris stysi</i> (Wagner) [NEW]	VC26 (54)	-
<i>Hallodapus rufescens</i> (Burmeister)	-	VC25
<i>Halticus apterus</i> (Linnaeus)	VC26	VC25
<i>Halticus luteicollis</i> (Panzer)	VC26 (49)	VC25
<i>Harpocera thoracica</i> (Fallén)	VC26	VC25
<i>Heterocordylus genistae</i> (Scopoli)	-	VC25 (50)
<i>Heterocordylus tibialis</i> (Hahn)	VC26	VC25
<i>Heterotoma planicornis</i> (Pallas)	VC26	VC25
<i>Hoplomachus thunbergii</i> (Fallén)	-	VC25 (23)
<i>Leptopterna dolabrata</i> (Linnaeus)	VC26 (55)	VC25
<i>Leptopterna ferrugata</i> (Fallén)	VC26 (55)	VC25
<i>Liocoris tripustulatus</i> (Fabricius)	VC26	VC25
<i>Lopus decolor</i> (Fallén)	VC26 (55)	VC25
<i>Lygocoris pabulinus</i> (Linnaeus)	VC26	VC25
<i>Lygocoris rugicollis</i> (Fallén)	-	VC25
<i>Lygus rugulipennis</i> Poppius	VC26 (15)	-
<i>Macrotylus paykullii</i> (Fallén)	-	VC25
<i>Macrotylus solitarius</i> (Meyer-Dür)	VC26	-
<i>Malacocoris chlorizans</i> (Panzer)	-	VC25
<i>Mecomma ambulans</i> (Fallén)	VC26 (28)	VC25
<i>Mecomma dispar</i> (Boheman)	-	VC25
<i>Megacoelum beckeri</i> (Fieber) [DELETED]	-	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	VC26	VC25
<i>Megaloceroea recticornis</i> (Geoffroy)	VC26	VC25
<i>Megalocoleus molliculus</i> (Fallén)	VC26	VC25

MIRIDAE (CONTINUED)

<i>Megalocoleus tanacetii</i> (Fallén) [NEW]	-	VC25 (56)
<i>Miridius quadrvirgatus</i> (A. Costa)	-	VC25
<i>Miris striatus</i> (Linnaeus)	VC26	VC25
<i>Myrmecoris gracilis</i> (R.F. Sahlberg) [NEW]	VC26 (56)	-
<i>Monalocoris filicis</i> (Linnaeus)	VC26 (55)	VC25
<i>Neolygus contaminatus</i> (Fallén)	VC26 (12)	VC25
<i>Neolygus viridis</i> (Fallén)	VC26	VC25
<i>Notostira elongata</i> (Geoffroy)	VC26	VC25
<i>Oncotylus viridiflavus</i> (Goeze)	VC26	VC25
<i>Orthocephalus coriaceus</i> (Fabricius)	-	VC25
<i>Orthocephalus saltator</i> (Hahn)	VC26	VC25
<i>Orthonotus rufifrons</i> (Fallén)	VC26	VC25
<i>Orthops campestris</i> (Linnaeus) [DELETED]	-	-
<i>Orthops kalmii</i> (Linnaeus) [DELETED]	-	-
<i>Orthotylus adenocarpi</i> (Perris)	-	VC25 (39)
<i>Orthotylus bilineatus</i> (Fallén)	-	VC25
<i>Orthotylus concolor</i> (Kirschbaum)	VC26 (12)	VC25 (39)
<i>Orthotylus ericetorum</i> (Fallén)	-	VC25
<i>Orthotylus flavinervis</i> (Kirschbaum)	VC26	VC25
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	-	VC25
<i>Orthotylus marginalis</i> Reuter	VC26	VC25
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	-	VC25
<i>Orthotylus ochrotrichus</i> Fieber	VC26 (A)	VC25 (39)
<i>Orthotylus prasinus</i> (Fallén)	-	VC25
<i>Orthotylus rubidus</i> (Puton)	-	VC25 (51)
<i>Orthotylus tenellus</i> (Fallén)	-	VC25
<i>Orthotylus virescens</i> (Douglas & Scott)	-	VC25
<i>Orthotylus viridinervis</i> (Kirschbaum)	-	VC25
<i>Pantilius tunicatus</i> (Fabricius)	VC26	VC25
<i>Phoenicocoris obscurellus</i> (Fallén)	-	VC25
<i>Phylus coryli</i> (Linnaeus)	VC26	VC25
<i>Phylus melanocephalus</i> (Linnaeus)	VC26	VC25
<i>Phytocoris dimidiatus</i> Kirschbaum	-	VC25
<i>Phytocoris longipennis</i> Flor	VC26 (55)	VC25
<i>Phytocoris populi</i> (Linnaeus)	VC26 (25)	VC25
<i>Phytocoris reuteri</i> Saunders	VC26 (A)	-
<i>Phytocoris tiliae</i> (Fabricius)	VC26	VC25
<i>Phytocoris ulmi</i> (Linnaeus)	VC26	VC25
<i>Phytocoris varipes</i> Boheman	VC26 (12)	VC25
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	VC26	-
<i>Pilophorus clavatus</i> (Linnaeus) [NEW]	VC26 (54)	-
<i>Pilophorus perplexus</i> Douglas & Scott	VC26 (16)	-
<i>Pinalitus atomarius</i> (Meyer-Dür)	VC26	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC26	VC25
<i>Pinalitus rubricatus</i> (Fallén)	VC26 (12)	VC25
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	-	VC25
<i>Plagiognathus arbustorum</i> (Fabricius)	VC26 (12)	-
<i>Plagiognathus chrysanthemi</i> (Wolff)	VC26 (12)	-
<i>Platycranus bicolor</i> (Douglas & Scott)	VC26 (12)	VC25
<i>Polymerus nigrita</i> (Fallén)	-	VC25
<i>Polymerus unifasciatus</i> (Fabricius)	VC26	-
<i>Polymerus vulneratus</i> (Panzer) [NEW]	-	VC25 (30)
<i>Psallus ambiguus</i> (Fallén)	-	VC25
<i>Psallus falleni</i> Reuter	VC26 (A)	-

MIRIDAE (CONTINUED)

<i>Psallus flavellus</i> Stichel	-	VC25
<i>Psallus haematodes</i> (Gmelin)	VC26	VC25
<i>Psallus lepidus</i> Fieber	VC26	VC25
<i>Psallus luridus</i> Reuter	VC26 (21)	-
<i>Psallus perrisi</i> (Mulsant & Rey) [NEW]	VC26 (57)	-
<i>Psallus salicis</i> (Kirschbaum)	-	VC25
<i>Psallus varians</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	VC26	-
<i>Rhabdomiris striatellus</i> (Fabricius)	VC26	VC25
<i>Salicarus roseri</i> (Herrich-Schaeffer)	-	VC25
<i>Stenodema calcarata</i> (Fallén)	VC26 (55)	VC25
<i>Stenodema laevigata</i> (Linnaeus)	VC26 (12)	-
<i>Stenodema trispinosa</i> Reuter	-	VC25 (39)
<i>Stenotus binotatus</i> (Fabricius)	VC26	VC25
<i>Sthenarus rotermundi</i> (Scholtz)	VC26	-
<i>Systellonotus triguttatus</i> (Linnaeus)	VC26 (A)	-
<i>Teratocoris antennatus</i> (Boheman)	-	VC25
<i>Teratocoris saundersi</i> Douglas & Scott	-	VC25 (A)
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	-	VC25
<i>Trigonotylus caelestialium</i> (Kirkaldy) [NEW]	VC26 (54)	-
<i>Trigonotylus psammaecolor</i> Reuter	-	VC25 (52)
<i>Trigonotylus ruficornis</i> (Geoffroy) [NEW]	VC26 (55)	-
<i>Tuponia mixticolor</i> (A. Costa)	-	VC25 (53)
<i>Tytthus pygmaeus</i> (Zetterstedt)	-	VC25

CERATOCOMBIDAE

<i>Ceratocombus coleoptratus</i> (Zetterstedt)	-	VC25
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC26	VC25
<i>Chartoscirta cocksii</i> (Curtis)	-	VC25
<i>Chiloxanthus pilosus</i> (Fallén)	-	VC25
<i>Halosalda lateralis</i> (Fallén)	-	VC25
<i>Salda littoralis</i> (Linnaeus)	-	VC25
<i>Saldula opacula</i> (Zetterstedt)	-	VC25
<i>Saldula orthochila</i> (Fieber)	VC26 (8)	VC25
<i>Saldula pilosella</i> (Thomson)	-	VC25
<i>Saldula saltatoria</i> (Linnaeus)	VC26 (12)	VC25

MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	VC26 (59)	VC25 (59)
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HEBRIDAE

<i>Hebrus pusillus</i> (Fallén)	-	VC25
<i>Hebrus ruficeps</i> Thomson	-	VC25

HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus)	VC26	VC25
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VELIIDAE

<i>Microvelia pygmaea</i> (Dufour)	-	VC25 (59)
<i>Microvelia reticulata</i> (Burmeister)	VC26 (59)	VC25 (59)
<i>Velia caprai</i> Tamanini	VC26 (59)	VC25 (59)
<i>Velia saulii</i> Tamanini [DELETED]	-	-

GERRIDAE

<i>Aquarius najas</i> (De Geer)	VC26	-
<i>Aquarius paludum</i> (Fabricius)	VC26 (18)	VC25 (17)
<i>Gerris argentatus</i> Schummel	-	VC25 (59)
<i>Gerris gibbifer</i> Schummel	-	VC25
<i>Gerris lacustris</i> (Linnaeus)	VC26 (59)	VC25 (59)
<i>Gerris lateralis</i> Schummel [DELETED]	-	-
<i>Gerris odontogaster</i> (Zetterstedt)	VC26 (59)	VC25 (59)
<i>Gerris thoracicus</i> Schummel	-	VC25
<i>Limnopus rufoscutellatus</i> (Latreille)	-	VC25

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	VC26 (59)	VC25 (59)
<i>Ranatra linearis</i> (Linnaeus)	VC26 (59)	VC25 (59)

NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	VC26 (59)	VC25 (59)
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	VC26 (59)	VC25 (59)
<i>Notonecta maculata</i> Fabricius	VC26 (59)	VC25 (59)
<i>Notonecta obliqua</i> Thunberg	-	VC25 (59)
<i>Notonecta viridis</i> Delcourt	VC26 (59)	VC25 (59)

PLEIDAE

<i>Plea minutissima</i> Leach	VC26 (59)	VC25 (59)
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CORIXIDAE

<i>Arctocorisa germari</i> (Fieber)	-	VC25 (59)
<i>Callicorixa praeusta</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Corixa affinis</i> Leach	-	VC25 (59)
<i>Corixa dentipes</i> Thomson	VC26 (59)	VC25 (59)
<i>Corixa panzeri</i> Fieber	VC26 (59)	VC25 (59)
<i>Corixa punctata</i> (Illiger)	VC26 (59)	VC25 (59)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	VC26 (59)	-
<i>Cymatia coleoptrata</i> (Fabricius)	VC26 (59)	VC25 (59)
<i>Hesperocorixa linnaei</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Hesperocorixa moesta</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Micronecta minutissima</i> (Linnaeus)	-	VC25 (59)
<i>Micronecta poweri</i> (Douglas & Scott)	VC26 (59)	VC25 (59)
<i>Micronecta scholtzi</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Paracorixa concinna</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Sigara distincta</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Sigara dorsalis</i> (Leach)	VC26 (59)	VC25 (59)
<i>Sigara falleni</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Sigara fossarum</i> (Leach)	VC26 (59)	VC25 (59)
<i>Sigara iactans</i> Jansson	VC26 (18)	VC25 (19)
<i>Sigara lateralis</i> (Leach)	VC26 (59)	VC25 (59)
<i>Sigara limitata</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Sigara nigrolineata</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Sigara selecta</i> (Fieber)	VC26 (59)	VC25 (59)
<i>Sigara semistriata</i> (Fieber)	-	VC25 (59)
<i>Sigara stagnalis</i> (Leach)	VC26 (59)	VC25 (59)
<i>Sigara venusta</i> (Douglas & Scott)	VC26 (59)	VC25 (59)

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Bedwell (1923)	(31) Anon. (1933)
(2) Morley (1920)	(32) Hammond (1974)
(3) Bowdrey (2006)	(33) Hubbard (2009)
(4) Judd (2011)	(34) Cuming (2006)
(5) Gibbs (2006)	(35) Alexander et al. (1999)
(6) Collett (1935)	(36) Kirby (1999)
(7) Bedwell (1935)	(37) Woodroffe (1954)
(8) Widgery (2007)	(38) Deans (2010)
(9) Cuming (2008)	(39) Southwood (1954)
(10) China (1938)	(40) Southwood (1963)
(11) China (1935)	(41) Nau (2004)
(12) Collett (1928)	(42) Woodroffe (1960)
(13) Britten (1939)	(43) Massee (1958)
(14) Massee (1952)	(44) Roche (1964)
(15) Leston (1951)	(45) Le Quesne (1955)
(16) Bedwell (1924)	(46) Massee (1953)
(17) Chalkley (2010)	(47) Woodroffe (1967)
(18) Chalkley (2015)	(48) Dolling (1999)
(19) Chalkley (2008)	(49) Hodge (1984)
(20) Anon. (1934)	(50) Fryer (1965)
(21) Bedwell (1938a)	(51) Southwood & Leston (1957)
(22) Bedwell (1938b)	(52) Lansbury (1963)
(23) Morley (1944b)	(53) Barclay & Nau (2003)
(24) Morley (1944a)	(54) Ryan (2016c)
(25) Elliott (1931)	(55) Ryan (2017a)
(26) Morley (1937)	(56) Ryan (2017b)
(27) Hulson (1964)	(57) Ryan & Warrington (2017)
(28) Morley (1944c)	(58) Ryan (2016d)
(29) Boreham (1962)	(59) Huxley (2003)
(30) Morley (1947)	

During the course of the research for this article, new records were found for several neighbouring vice-counties, as follows.

Acompus pallipes (Herrich-Schaeffer) (Lygaeidae), North. Essex (VC19) (China, 1935)
Ischnocoris angustulus (Boheman) (Lygaeidae), East Norfolk (VC27) (Collett, 1927)
Tingis angustata (Herrich-Schaeffer) (Tingidae), North. Essex (VC19) (Massee, 1942)
Amblytylus brevicollis Fieber (Miridae), East Norfolk (VC27) (Leston, 1953)
Conostethus griseus Douglas & Scott (Miridae), North Essex (VC19) (Nau, 1978)
Pinalitus atomarius (Meyer-Dür) (Miridae), East Norfolk (VC27) (Morley, 1905)
Limnporus rufoscutellatus (Latreille) (Gerridae), East Norfolk (VC27) (Leston, 1956)

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**SOME NEGATIVE RESULTS IN THE SEARCH FOR
NOTOSTIRA ERRATICA (LINNAEUS) (MIRIDAE) IN SUSSEX AND YORKSHIRE**

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This bug was reported as absent from the British Isles by Southwood & Leston (1959), but was restored by Woodroffe (1977) reporting it from Ireland and Wiltshire. The Wiltshire record was based upon female specimens, which may have been the very similar *Notostira elongata* (Geoffroy), as the two species are only readily separated by examination of the male genitalia. However, the presence of *N. erratica* in mainland Britain was recently confirmed by Nelson (2014) reporting the male from a site in the Oxfordshire Chilterns. Since then, more sites in Oxfordshire have been found, and the animal has also been reported from Berkshire, Buckinghamshire, Gloucestershire, Warwickshire and Northamptonshire (Ryan, 2015a & 2015b). The apparent ease with which Ryan appears to have found the insect, by specifically targeting road verges and field margins, rather than open grassland, suggested the animal may be found to be more widespread if sought in these situations elsewhere.

In the last two years I made a determined effort to find *N. erratica* in two new localities, on the Sussex coast and in East Yorkshire, but failed on both occasions, taking only *N. elongata*. The results of these studies are shown in Tables 1 & 2. The large numbers of male *Notostira* Fieber taken without success, indicates that *N. erratica* is either absent in verge/margin habitats in these two areas, or not present as commonly as it has been found in Oxfordshire and surrounding counties. If it had been as common, dozens of *N. erratica* would have been taken amongst the catch.

This is the first indication that the geographical distributions of the two *Notostira* species in mainland Britain may not be coincident. This is already known to be the case in Ireland, where *N. erratica* occurs but *N. elongata* does not.

I would be grateful to know of any other negative results by hemipterists in searching for *N. erratica*, as these can obviously be just as informative as positive results in understanding the animal's natural history.

Although I was not able to add new county records for *N. erratica*, I was able to add *Eysarcoris venustissimus* (Schrank) (Pentatomidae) to the county distribution for South-east Yorkshire (VC61) (Ryan, 2017). I swept two specimens of the bug along a road verge in the Wolds, near Market Weighton (SE956343) on 29 August. It was also pleasing to encounter several specimens of *Himacerus major* (A. Costa) (Nabidae) at three of the sites. This was commonly encountered in my late season searches for *N. erratica* in the counties surrounding Oxfordshire. The species is seldom encountered by my sweeping in other circumstances.

Table 1. Records of 136 male *Notostira* from the Sussex coast, 15 to 18 August 2016.

15 August, shoreline, Bosham (SU804033)	6 males, all <i>N. elongata</i>
16 August, shoreline, Pagham Harbour (SZ873957)	1 male <i>N. elongata</i>
16 August, road verge, Fishbourne (SU826048)	2 males, both <i>N. elongata</i>
16 August, shoreline, Bosham (SU799029)	46 males, all <i>N. elongata</i>
17 August, dunes, Hayling Island, Hampshire (SZ688995)	5 males, all <i>N. elongata</i>
17 August, seawall, Thorney Island (SU765040)	75 males, all <i>N. elongata</i>
18 August, shoreline, Dell Quay, Chichester (SU837031)	1 male <i>N. elongata</i>

Table 2. Records of 150 male *Notostira* from East Yorkshire, 29 August to 2 September 2017.

29 August, road verge, North Cave, Vale of York (SE876315)	15 males, all <i>N. elongata</i>
29 August, road verge, Little Weighton, the Wolds (SE956343)	2 males, both <i>N. elongata</i>
30 August, road verge, Paul, Holderness (TA174271)	38 males, all <i>N. elongata</i>
30 August, river bank, Paul, River Humber (TA165268)	3 males, all <i>N. elongata</i>
31 August, road verge, Patrington, Holderness (TA333215)	10 males, all <i>N. elongata</i>
31 August, road verge, Easington, Holderness (TA389194)	2 males, both <i>N. elongata</i>
31 August, river bank, Kilnsea, River Humber (TA410157)	32 males, all <i>N. elongata</i>
31 August, road verge, Roos, Holderness (TA285313)	15 males, all <i>N. elongata</i>
1 September, road verge, West End, Vale of York (TA908305)	33 males, all <i>N. elongata</i>

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR SUSSEX INTO VICE-COUNTY LISTS FOR VC13 AND VC14

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Introduction

The list of Hemiptera-Heteroptera for Sussex in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian West Sussex (VC13) and Watsonian East Sussex (VC14).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013a, 2014, 2015a, 2016a, 2016b, 2018a & 2018b). The resulting vice-county lists include 542 records, compared with 386 for the original Sussex list. The list for Sussex as a whole has shortened by six, the decrease arising from 15 species added to the list and 21 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Sussex are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from Butler (1905).

The divided records

ARADIDAE

<i>Aneurus avenius</i> (Dufour)	-	VC14 (72)
<i>Aneurus laevis</i> (Fabricius)	-	VC14 (1)
<i>Aradus aterrimus</i> Fieber	VC13 (36)	-
<i>Aradus corticalis</i> (Linnaeus) [DELETED]	-	-
<i>Aradus depressus</i> (Fabricius)	VC13	VC14

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC13	VC14
<i>Cyphostethus tristriatus</i> (Fabricius)	VC13	VC14 (42)
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC13	VC14
<i>Elasmucha grisea</i> (Linnaeus)	VC13	VC14

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	-	VC14
<i>Canthophorus impressus</i> (Horváth)	VC13	VC14 (66)
<i>Legnotus limbosus</i> (Geoffroy)	VC13	VC14
<i>Legnotus picipes</i> (Fallén)	-	VC14 (2)
<i>Sehirus luctuosus</i> Mulsant & Rey	-	VC14 (54)
<i>Tritomegas bicolor</i> (Linnaeus)	-	VC14 (3)

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	-	VC14 (39)
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SCUTELLERIDAE

<i>Eurygaster maura</i> (Linnaeus) [DELETED]	-	-
<i>Eurygaster testudinaria</i> (Geoffroy) [DELETED]	-	-
<i>Odontoscelis lineola</i> Rambur	-	VC14 (1)

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC13	VC14
<i>Dolycoris baccarum</i> (Linnaeus)	VC13	VC14
<i>Eurydema dominulus</i> (Scopoli)	-	VC14
<i>Eurydema oleracea</i> (Linnaeus)	-	VC14
<i>Eurydema ornata</i> (Linnaeus)	VC13 (2)	VC14 (56)
<i>Eysarcoris aeneus</i> (Scopoli)	-	VC14 (1)
<i>Eysarcoris venustissimus</i> (Schrank)	VC13 (4)	-
<i>Neottiglossa pusilla</i> (Gmelin)	VC13 (4)	VC14
<i>Palomena prasina</i> (Linnaeus)	VC13	VC14
<i>Pentatoma rufipes</i> (Linnaeus)	VC13	VC14
<i>Peribalus strictus</i> (Fabricius)	VC13	VC14 (67)
<i>Picromerus bidens</i> (Linnaeus)	-	VC14
<i>Piezodorus lituratus</i> (Fabricius)	VC13	VC14
<i>Podops inunctus</i> (Fabricius)	VC13	VC14
<i>Rhacognathus punctatus</i> (Linnaeus)	VC13	VC14
<i>Troilus luridus</i> (Fabricius)	VC13	VC14
<i>Zicrona caerulea</i> (Linnaeus)	VC13	VC14

COREIDAE

<i>Ceraleptus lividus</i> Stein	VC13 (4)	VC14
<i>Coreus marginatus</i> (Linnaeus)	VC13	VC14
<i>Coriomeris denticulatus</i> (Scopoli)	VC13	VC14
<i>Enoplops scapha</i> (Fabricius)	-	VC14
<i>Gonocerus acuteangulatus</i> (Goeze)	VC13 (55)	-
<i>Leptoglossus occidentalis</i> Heidemann	VC13 (59)	VC14 (59)
<i>Spathocera dalmanii</i> (Schilling)	VC13 (57)	-
<i>Syromastus rhombeus</i> (Linnaeus) [DELETED]	-	-

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	-	VC14 (70)
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RHOPALIDAE

<i>Chorosoma schillingii</i> (Schilling)	-	VC14
<i>Corizus hyoscyami</i> (Linnaeus)	VC13	VC14 (68)
<i>Liorhyssus hyalinus</i> (Fabricius)	VC13 (5)	VC14 (53)
<i>Myrmus miriformis</i> (Fallén)	VC13	VC14
<i>Rhopalus maculatus</i> (Fieber)	VC13	VC14
<i>Rhopalus parumpunctatus</i> Schilling	-	VC14
<i>Rhopalus subrufus</i> (Gmelin)	VC13	VC14
<i>Stictopleurus punctatonevrosus</i> (Goeze)	VC13 (6)	VC14 (53)

STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli)	VC13	VC14 (1)
<i>Dicranocephalus medius</i> (Mulsant & Rey)	VC13 (58)	-

LYGAEIDAE

<i>Aphanus rolandri</i> (Linnaeus)	-	VC14 (7)
<i>Chilacis typhae</i> (Perris)	-	VC14
<i>Cymus aurescens</i> Distant	-	VC14 (1)

LYGAEIDAE (CONTINUED)

<i>Cymus claviculus</i> (Fallén)	-	VC14
<i>Cymus glandicolor</i> Hahn	VC13 (8)	VC14
<i>Cymus melanocephalus</i> Fieber	VC13	-
<i>Drymus brunneus</i> (R.F. Sahlberg)	VC13	VC14
<i>Drymus latus</i> Douglas & Scott [DELETED]	-	-
<i>Drymus pilicornis</i> (Mulsant & Rey) [DELETED]	-	-
<i>Drymus sylvaticus</i> (Fabricius)	-	VC14 (70)
<i>Emblethis denticollis</i> Horváth	VC13 (52)	-
<i>Eremocoris podagricus</i> (Fabricius)	VC13 (42)	-
<i>Gastrodes grossipes</i> (De Geer)	-	VC14
<i>Graptopeltus lynceus</i> (Fabricius)	-	VC14
<i>Henestaris laticeps</i> (Curtis)	VC13	VC14
<i>Heterogaster artemisiae</i> Schilling [NEW]	VC13	-
<i>Heterogaster urticae</i> (Fabricius)	-	VC14
<i>Ischnocoris angustulus</i> (Boheman)	-	VC14
<i>Ischnodemus sabuleti</i> (Fallén)	VC13 (39)	VC14 (28)
<i>Kleidocerys ericae</i> (Horváth)	VC13 (9)	VC14 (10)
<i>Kleidocerys resedae</i> (Panzer)	VC13	VC14
<i>Lamproplax picea</i> (Flor)	VC13 (9)	-
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	-	VC14 (43)
<i>Macrodema microptera</i> (Curtis)	VC13	VC14
<i>Megalonotus antennatus</i> (Schilling)	-	VC14
<i>Megalonotus chiragra</i> (Fabricius) [NEW]	VC13 (76)	VC14 (76)
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	-	VC14
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	-	VC14
<i>Megalonotus sabulicola</i> (Thomson) [NEW]	-	VC14
<i>Metopoplax ditomoides</i> (A. Costa)	VC13 (52)	-
<i>Nysius ericae</i> (Schilling)	VC13 (31)	-
<i>Nysius graminicola</i> (Kolenati)	VC13 (63)	-
<i>Nysius helveticus</i> (Herrich-Schaeffer)	VC13 (55)	-
<i>Nysius huttoni</i> F.B. White	VC13 (65)	VC14 (65)
<i>Nysius senecionis</i> (Schilling)	VC13 (11)	VC14 (49)
<i>Nysius thymi</i> (Wolff) [DELETED]	-	-
<i>Ortholomus punctipennis</i> (Herrich-Schaeffer)	-	VC14 (50)
<i>Pachybrachius fracticollis</i> (Schilling)	VC13	-
<i>Peritrechus convivus</i> (Stål)	VC13	-
<i>Peritrechus geniculatus</i> (Hahn)	-	VC14
<i>Peritrechus gracilicornis</i> Puton	-	VC14
<i>Peritrechus lundii</i> (Gmelin)	VC13	VC14
<i>Peritrechus nubilus</i> (Fallén)	VC13 (12)	VC14
<i>Plinthisus brevipennis</i> (Latreille)	VC13	VC14
<i>Rhyparochromus pini</i> (Linnaeus)	-	VC14
<i>Scolopostethus affinis</i> (Schilling)	VC13	VC14
<i>Scolopostethus decoratus</i> (Hahn)	VC13 (9)	VC14 (70)
<i>Scolopostethus grandis</i> Horváth	-	VC14
<i>Scolopostethus pictus</i> (Schilling)	-	VC14 (71)
<i>Scolopostethus puberulus</i> Horváth	-	VC14
<i>Scolopostethus thomsoni</i> Reuter	VC13	VC14
<i>Stygnocoris fuliginus</i> (Geoffroy)	VC13	VC14
<i>Stygnocoris rusticus</i> (Fallén)	VC13	VC14
<i>Stygnocoris sabulosus</i> (Schilling)	VC13	VC14
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	-	VC14 (70)
<i>Trapezonotus arenarius</i> (Linnaeus)	VC13 (35)	-
<i>Trapezonotus dispar</i> Stål [NEW]	VC13 (35)	-

BERYTIDAE

<i>Berytinus crassipes</i> (Herrich-Schaeffer)	-	VC14
<i>Berytinus hirticornis</i> (Brullé)	-	VC14 (39)
<i>Berytinus minor</i> (Herrich-Schaeffer)	VC13	VC14
<i>Berytinus montivagus</i> (Meyer-Dür)	VC13	VC14 (39)
<i>Berytinus signoreti</i> (Fieber)	-	VC14
<i>Gampsocoris punctipes</i> (Germar)	VC13	VC14
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	-	VC14
<i>Neides tipularius</i> (Linnaeus) [DELETED]	-	-

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	VC13	VC14
<i>Piesma maculatum</i> (Laporte)	VC13	VC14

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	-	VC14
<i>Acalypta carinata</i> (Panzer)	-	VC14
<i>Acalypta nigrina</i> (Fallén) [DELETED]	-	-
<i>Acalypta parvula</i> (Fallén)	VC13	VC14
<i>Acalypta platycheila</i> (Fieber)	VC13 (13,14)	-
<i>Agramma laetum</i> (Fallén)	-	VC14
<i>Catoplatus fabricii</i> (Stål)	-	VC14
<i>Derephysia foliacea</i> (Fallén)	VC13	VC14
<i>Dictyla convergens</i> (Herrich-Schaeffer)	VC13	VC14
<i>Dictyonota strichnocera</i> Fieber	-	VC14
<i>Kalama tricornis</i> (Schrank)	VC13	VC14
<i>Oncochila simplex</i> (Herrich-Schaeffer)	VC13 (42)	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	VC13	VC14
<i>Physatocheila smreczynskii</i> China	-	VC14 (15)
<i>Stephanitis rhododrendri</i> Horváth [DELETED]	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	VC13	VC14
<i>Tingis angustata</i> (Herrich-Schaeffer)	VC13	-
<i>Tingis cardui</i> (Linnaeus)	-	VC14 (70)
<i>Tingis reticulata</i> Herrich-Schaeffer	VC13 (41)	VC14

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer)	-	VC14
<i>Empicoris vagabundus</i> (Linnaeus)	VC13	VC14
<i>Reduvius personatus</i> (Linnaeus)	VC13	-

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	-	VC14
<i>Himacerus boops</i> (Schjødt) [DELETED]	-	-
<i>Himacerus major</i> (A. Costa)	-	VC14 (70)
<i>Himacerus mirmicoides</i> (O. Costa)	VC13	VC14
<i>Nabis brevis</i> Scholtz [DELETED]	-	-
<i>Nabis ericetorum</i> Scholtz	-	VC14 (70)
<i>Nabis fesus</i> (Linnaeus)	-	VC14 (70)
<i>Nabis flavomarginatus</i> Scholtz	VC13	VC14
<i>Nabis limbatus</i> Dahlbom	-	VC14 (70)
<i>Nabis lineatus</i> Dahlbom	VC13	VC14
<i>Nabis rugosus</i> (Linnaeus)	-	VC14 (70)

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	VC13 (4)	VC14
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ANTHOCORIDAE (CONTINUED)

<i>Acompocoris pygmaeus</i> (Fallén)	VC13	VC14
<i>Anthocoris confusus</i> Reuter	-	VC14 (70)
<i>Anthocoris gallarumulmi</i> (De Geer)	-	VC14
<i>Anthocoris nemoralis</i> (Fabricius)	-	VC14 (70)
<i>Anthocoris nemorum</i> (Linnaeus)	-	VC14 (70)
<i>Anthocoris sarothamni</i> Douglas & Scott	-	VC14
<i>Brachysteles parvicornis</i> (A. Costa)	-	VC14 (38)
<i>Buchananiella continua</i> (F.B. White) [NEW]	VC13 (77)	-
<i>Cardiastethus fasciiventris</i> (Garbiglietti) [DELETED]	-	-
<i>Dufouriellus ater</i> (Dufour)	-	VC14
<i>Lyctocoris campestris</i> (Fabricius)	-	VC14 (70)
<i>Orius laevigatus</i> (Fieber) [NEW]	-	VC14 (16)
<i>Orius majusculus</i> (Reuter)	-	VC14 (16)
<i>Orius niger</i> (Wolff)	-	VC14 (16)
<i>Temnostethus gracilis</i> Horváth	-	VC14 (27)
<i>Temnostethus pusillus</i> (Herrich-Schaeffer)	-	VC14 (27)
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	VC13	-
<i>Xylocoris cursitans</i> (Fallén)	-	VC14
<i>Xylocoris galactinus</i> (Fieber)	-	VC14

CIMICIDAE

<i>Cimex lectularius</i> Linnaeus	-	VC14 (70)
<i>Cimex pipistrelli</i> Jenyns [DELETED]	-	-

MICROPHYSIDAE

<i>Loricula elegantula</i> (Baerensprung)	VC13	VC14
<i>Loricula exilis</i> (Fallén) [NEW]	-	VC14
<i>Loricula inconspicua</i> (Douglas & Scott)	-	VC14
<i>Loricula pselaphiformis</i> Curtis	VC13	VC14

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	VC13 (4)	VC14
<i>Adelphocoris lineolatus</i> (Goeze)	VC13	VC14
<i>Adelphocoris ticinensis</i> (Meyer-Dür)	VC13 (51)	-
<i>Agnocoris reclairei</i> (Wagner)	-	VC14 (56)
<i>Alloeotomus gothicus</i> (Fallén)	-	VC14 (17)
<i>Amblytylus brevicollis</i> Fieber [DELETED]	-	-
<i>Amblytylus nasutus</i> (Kirschbaum)	-	VC14
<i>Apolygus lucorum</i> (Meyer-Dür)	VC13	VC14
<i>Apolygus spinolae</i> (Meyer-Dür)	-	VC14
<i>Asciodema obsoleta</i> (Fieber)	-	VC14
<i>Atractotomus magnicornis</i> (Fallén)	VC13	VC14
<i>Atractotomus mali</i> (Meyer-Dür) [NEW]	VC13 (76)	-
<i>Atractotomus parvulus</i> Reuter	-	VC14 (40)
<i>Blepharidopterus angulatus</i> (Fallén)	-	VC14 (70)
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	-	VC14
<i>Bothynotus pilosus</i> (Boheman)	-	VC14
<i>Bryocoris pteridis</i> (Fallén)	-	VC14
<i>Calocoris roseomaculatus</i> (De Geer)	VC13	VC14
<i>Camptozygum aequale</i> (Villers)	-	VC14
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	-	VC14 (18)
<i>Capsodes flavomarginatus</i> (Donovan) [DELETED]	-	-
<i>Capsodes gothicus</i> (Linnaeus)	VC13	VC14
<i>Capsodes sulcatus</i> (Fieber)	VC13	-

MIRIDAE (CONTINUED)

<i>Capsus ater</i> (Linnaeus)	VC13	VC14
<i>Capsus wagneri</i> (Remane)	VC13 (47)	-
<i>Charagochilus gyllenhalii</i> (Fallén)	-	VC14
<i>Chlamydatus pullus</i> (Reuter)	-	VC14
<i>Chlamydatus saltitans</i> (Fallén)	-	VC14
<i>Closterotomus fulvomaculatus</i> (De Geer)	VC13	VC14
<i>Closterotomus norwegicus</i> (Gmelin)	-	VC14 (70)
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	VC13	VC14
<i>Conostethus griseus</i> Douglas & Scott	VC13 (43)	-
<i>Cyllecoris histrionius</i> (Linnaeus)	VC13	VC14
<i>Cyrtorhinus caricis</i> (Fallén)	VC13	VC14
<i>Deraeocoris flavilinea</i> (A. Costa)	-	VC14 (55)
<i>Deraeocoris lutescens</i> (Schilling) [NEW]	VC13 (76)	VC14 (76)
<i>Deraeocoris olivaceus</i> (Fabricius)	VC13 (19)	VC14 (42)
<i>Deraeocoris ruber</i> (Linnaeus)	VC13 (9)	VC14
<i>Dichrooscytus gustavi</i> Josifov	VC13 (33)	-
<i>Dichrooscytus rufipennis</i> (Fallén)	VC13 (4)	VC14
<i>Dicyphus annulatus</i> (Wolff) [NEW]	-	VC14 (73)
<i>Dicyphus constrictus</i> (Boheman)	-	VC14
<i>Dicyphus epilobii</i> Reuter	-	VC14 (70)
<i>Dicyphus errans</i> (Wolff)	VC13	VC14
<i>Dicyphus globulifer</i> (Fallén)	VC13	VC14
<i>Dicyphus pallicornis</i> (Fieber)	-	VC14
<i>Dicyphus pallidus</i> (Herrich-Schaeffer)	VC13 (61)	-
<i>Dicyphus stachydis</i> J. Sahlberg	-	VC14
<i>Dryophilocoris flavoquadrinaculatus</i> (De Geer)	VC13	VC14
<i>Europiella decolor</i> (Uhler)	VC13 (44)	-
<i>Globiceps flavomaculatus</i> (Fabricius)	-	VC14
<i>Globiceps fulvicollis</i> Jakovlev	VC13 (69)	VC14
<i>Globiceps juniperi</i> Reuter	VC13 (34)	-
<i>Grypocoris stysi</i> (Wagner) [NEW]	VC13 (76)	-
<i>Hallodapus rufescens</i> (Burmeister)	-	VC14 (48)
<i>Halticus apterus</i> (Linnaeus)	-	VC14
<i>Halticus luteicollis</i> (Panzer)	-	VC14
<i>Harpocera thoracica</i> (Fallén)	VC13	VC14
<i>Heterocordylus genistae</i> (Scopoli)	-	VC14
<i>Heterocordylus tibialis</i> (Hahn)	-	VC14
<i>Heterotoma planicornis</i> (Pallas)	-	VC14 (18)
<i>Leptopterna dolabrata</i> (Linnaeus)	-	VC14 (18)
<i>Leptopterna ferrugata</i> (Fallén)	-	VC14 (70)
<i>Liocoris tripustulatus</i> (Fabricius)	-	VC14 (70)
<i>Lopus decolor</i> (Fallén)	VC13	VC14
<i>Lygocoris pabulinus</i> (Linnaeus)	-	VC14 (70)
<i>Lygocoris rugicollis</i> (Fallén)	-	VC14
<i>Lygus pratensis</i> (Linnaeus)	-	VC14 (56)
<i>Lygus rugulipennis</i> Poppius	VC13 (20)	-
<i>Macrolophus rubi</i> Woodroffe [DELETED]	-	-
<i>Macrotylus paykullii</i> (Fallén)	-	VC14
<i>Macrotylus solitarius</i> (Meyer-Dür)	-	VC14
<i>Malacocoris chlorizans</i> (Panzer)	-	VC14 (70)
<i>Mecomma ambulans</i> (Fallén)	VC13	VC14
<i>Mecomma dispar</i> (Boheman) [NEW]	VC13 (9)	-
<i>Megacoelum beckeri</i> (Fieber)	-	VC14 (21)
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	-	VC14

MIRIDAE (CONTINUED)

<i>Megaloceroea recticornis</i> (Geoffroy)	-	VC14
<i>Megalocoleus molliculus</i> (Fallén)	VC13 (9)	VC14
<i>Megalocoleus tanacetii</i> (Fallén) [NEW]	VC13 (76)	-
<i>Miridius quadrivirgatus</i> (A. Costa)	VC13	VC14
<i>Miris striatus</i> (Linnaeus)	VC13	VC14
<i>Monalocoris filicis</i> (Linnaeus)	VC13	VC14
<i>Neolygus contaminatus</i> (Fallén)	VC13	VC14
<i>Neolygus viridis</i> (Fallén)	-	VC14
<i>Notostira elongata</i> (Geoffroy)	VC13 (74)	VC14 (70)
<i>Oncotylus viridiflavus</i> (Goeze)	VC13	VC14
<i>Orthocephalus coriaceus</i> (Fabricius)	VC13 (4)	VC14
<i>Orthocephalus saltator</i> (Hahn)	VC13	VC14
<i>Orthonotus rufifrons</i> (Fallén)	-	VC14 (18)
<i>Orthops basalis</i> (A. Costa)	-	VC14 (62)
<i>Orthops campestris</i> (Linnaeus) [DELETED]	-	-
<i>Orthotylus adenocarpi</i> (Perris)	-	VC14
<i>Orthotylus bilineatus</i> (Fallén)	-	VC14
<i>Orthotylus concolor</i> (Kirschbaum) [DELETED]	-	-
<i>Orthotylus ericetorum</i> (Fallén)	-	VC14 (70)
<i>Orthotylus flavinervis</i> (Kirschbaum)	-	VC14
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC13	VC14
<i>Orthotylus marginalis</i> Reuter	VC13	VC14
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	VC13 (22)	VC14 (70)
<i>Orthotylus nassatus</i> (Fabricius)	-	VC14
<i>Orthotylus ochrotrichus</i> Fieber	-	VC14
<i>Orthotylus prasinus</i> (Fallén)	VC13 (4)	VC14
<i>Orthotylus rubidus</i> (Puton)	VC13	VC14
<i>Orthotylus virescens</i> (Douglas & Scott)	-	VC14
<i>Pantilius tunicatus</i> (Fabricius)	VC13	VC14
<i>Phoenicocoris obscurellus</i> (Fallén)	-	VC14
<i>Phylus coryli</i> (Linnaeus)	VC13	VC14
<i>Phylus melanocephalus</i> (Linnaeus)	VC13	VC14
<i>Phytocoris dimidiatus</i> Kirschbaum	VC13	VC14
<i>Phytocoris insignis</i> Reuter [DELETED]	-	-
<i>Phytocoris longipennis</i> Flor	VC13	VC14
<i>Phytocoris populi</i> (Linnaeus)	VC13	-
<i>Phytocoris reuteri</i> Saunders	-	VC14
<i>Phytocoris tiliae</i> (Fabricius)	VC13	VC14
<i>Phytocoris ulmi</i> (Linnaeus)	-	VC14 (70)
<i>Phytocoris varipes</i> Boheman	-	VC14 (70)
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	-	VC14 (23)
<i>Pilophorus clavatus</i> (Linnaeus)	-	VC14
<i>Pilophorus perplexus</i> Douglas & Scott	-	VC14
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC13	VC14
<i>Pinalitus rubricatus</i> (Fallén)	VC13	VC14
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC13	VC14
<i>Placochilus seladonicus</i> (Fallén)	-	VC14 (37)
<i>Plagiognathus arbustorum</i> (Fabricius)	-	VC14 (70)
<i>Plagiognathus chrysanthemi</i> (Wolff)	-	VC14 (70)
<i>Platycranus bicolor</i> (Douglas & Scott)	VC13	VC14
<i>Plesiodema pinetella</i> (Zetterstedt)	VC13 (25)	VC14 (24)
<i>Polymerus nigrita</i> (Fallén)	VC13 (32)	-
<i>Polymerus unifasciatus</i> (Fabricius)	-	VC14
<i>Psallodema fieberi</i> (Fieber)	VC13 (9)	-

MIRIDAE (CONTINUED)

<i>Psallus ambiguus</i> (Fallén)	VC13	VC14
<i>Psallus falleni</i> Reuter	-	VC14
<i>Psallus haematodes</i> (Gmelin)	-	VC14
<i>Psallus lepidus</i> Fieber	-	VC14
<i>Psallus perrisi</i> (Mulsant & Rey)	VC13 (30)	-
<i>Psallus salicis</i> (Kirschbaum)	VC13	VC14
<i>Psallus varians</i> (Herrich-Schaeffer)	-	VC14 (70)
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	-	VC14
<i>Rhabdomiris striatellus</i> (Fabricius)	VC13	VC14
<i>Salicarus roseri</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Stenodema calcarata</i> (Fallén)	-	VC14 (70)
<i>Stenodema holsata</i> (Fabricius)	VC13	VC14
<i>Stenodema laevigata</i> (Linnaeus)	-	VC14 (70)
<i>Stenodema trispinosa</i> Reuter	-	VC14 (24)
<i>Stenotus binotatus</i> (Fabricius)	-	VC14 (18)
<i>Strongylocoris leucocephalus</i> (Linnaeus)	VC13	VC14 (29)
<i>Systellonotus triguttatus</i> (Linnaeus)	VC13	VC14
<i>Teratocoris antennatus</i> (Boheman)	-	VC14
<i>Teratocoris saundersi</i> Douglas & Scott	-	VC14 (18)
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	VC13	-
<i>Trigonotylus caelestialium</i> (Kirkaldy)	VC13 (46)	-
<i>Trigonotylus psammaecolor</i> Reuter	VC13 (26)	VC14 (18)
<i>Trigonotylus ruficornis</i> (Geoffroy) [NEW]	VC13 (75)	-
<i>Tuponia brevirostris</i> Reuter	VC13 (58)	-
<i>Tuponia mixticolor</i> (A. Costa)	VC13 (43)	-
<i>Tythus pygmaeus</i> (Zetterstedt)	-	VC14

CERATOCOMBIDAE

<i>Ceratocombus coleoptratus</i> (Zetterstedt)	-	VC14
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC13	VC14
<i>Chartoscirta cocksi</i> (Curtis)	-	VC14
<i>Halosalda lateralis</i> (Fallén)	VC13	VC14
<i>Salda littoralis</i> (Linnaeus)	-	VC14
<i>Saldula orthochila</i> (Fieber)	VC13	-
<i>Saldula palustris</i> (Douglas) [NEW]	VC13 (76)	-
<i>Saldula pilosella</i> (Thomson)	VC13	VC14
<i>Saldula saltatoria</i> (Linnaeus)	VC13	VC14

MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	VC13 (64)	VC14
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HEBRIDAE

<i>Hebrus pusillus</i> (Fallén)	-	VC14
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HYDROMETRIDAE

<i>Hydrometra gracilentia</i> Horváth	-	VC14 (64)
<i>Hydrometra stagnorum</i> (Linnaeus)	VC13	VC14

VELIIDAE

<i>Microvelia pygmaea</i> (Dufour)	VC13 (64)	VC14 (64)
<i>Microvelia reticulata</i> (Burmeister)	VC13 (64)	VC14 (64)
<i>Velia caprai</i> Tamanini	VC13 (64)	VC14 (64)

GERRIDAE

<i>Aquarius najas</i> (De Geer)	-	VC14
<i>Aquarius paludum</i> (Fabricius)	VC13 (64)	VC14
<i>Gerris argentatus</i> Schummel	VC13 (64)	VC14
<i>Gerris gibbifer</i> Schummel	VC13	VC14
<i>Gerris lacustris</i> (Linnaeus)	VC13 (64)	VC14 (64)
<i>Gerris odontogaster</i> (Zetterstedt)	VC13 (64)	VC14
<i>Gerris thoracicus</i> Schummel	VC13	VC14
<i>Limnaporus rufoscutellatus</i> (Latreille)	-	VC14

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	VC13 (64)	VC14 (64)
<i>Ranatra linearis</i> (Linnaeus)	VC13	VC14

NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	VC13 (64)	VC14 (64)
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APHELOCHEIRIDAE

<i>Aphelocheirus aestivalis</i> (Fabricius)	VC13 (64)	VC14 (64)
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	VC13 (64)	VC14 (64)
<i>Notonecta maculata</i> Fabricius	VC13 (64)	VC14 (64)
<i>Notonecta obliqua</i> Thunberg	VC13 (64)	VC14 (64)
<i>Notonecta viridis</i> Delcourt	VC13 (64)	VC14 (64)

PLEIDAE

<i>Plea minutissima</i> Leach	VC13	VC14
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CORIXIDAE

<i>Arctocorisa germari</i> (Fieber)	-	VC14 (57)
<i>Callicorixa praeusta</i> (Fieber)	-	VC14 (64)
<i>Corixa affinis</i> Leach	-	VC14 (64)
<i>Corixa dentipes</i> Thomson	VC13 (64)	-
<i>Corixa panzeri</i> Fieber	-	VC14 (64)
<i>Corixa punctata</i> (Illiger)	VC13 (64)	VC14 (64)
<i>Cymatia bonsdorffii</i> (C.R. Sahlberg)	-	VC14 (64)
<i>Cymatia coleoptrata</i> (Fabricius)	VC13 (64)	VC14
<i>Cymatia rogenhoferi</i> (Fieber)	-	VC14 (60)
<i>Hesperocorixa castanea</i> (Thomson)	VC13 (64)	VC14 (64)
<i>Hesperocorixa linnaei</i> (Fieber)	-	VC14
<i>Hesperocorixa moesta</i> (Fieber)	VC13 (64)	VC14 (64)
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC13	VC14
<i>Micronecta poweri</i> (Douglas & Scott)	VC13 (64)	-
<i>Micronecta scholtzi</i> (Fieber)	VC13	VC14
<i>Paracorixa concinna</i> (Fieber)	-	VC14 (64)
<i>Sigara distincta</i> (Fieber)	VC13 (64)	VC14
<i>Sigara dorsalis</i> (Leach)	VC13	VC14
<i>Sigara falleni</i> (Fieber)	VC13	VC14
<i>Sigara fossarum</i> (Leach)	VC13 (64)	VC14
<i>Sigara iactans</i> Jansson	-	VC14 (45)
<i>Sigara lateralis</i> (Leach)	VC13	VC14
<i>Sigara limitata</i> (Fieber)	VC13	VC14
<i>Sigara nigrolineata</i> (Fieber)	VC13	VC14
<i>Sigara scotti</i> (Douglas & Scott)	-	VC14 (10)

CORIXIDAE (CONTINUED)

<i>Sigara selecta</i> (Fieber)	VC13 (64)	VC14 (64)
<i>Sigara semistriata</i> (Fieber)	VC13	-
<i>Sigara stagnalis</i> (Leach)	VC13 (64)	VC14 (64)
<i>Sigara striata</i> (Linnaeus)	-	VC14 (64)
<i>Sigara venusta</i> (Douglas & Scott)	-	VC14 (64)

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Butler (1923)	(40) Hodge (1985)
(2) Lyons (2016)	(41) Kirby (1985)
(3) Campbell-Taylor (1946)	(42) Porter (1985)
(4) Pickard-Cambridge (1946)	(43) Hodge (1986)
(5) Judd (2011)	(44) Dolling (1999)
(6) Jones (2004)	(45) Nau & Brooke (2006)
(7) Hickin (1950)	(46) Allen (1993)
(8) Morris (1971)	(47) Hodge (1991)
(9) Collett (1933)	(48) Hodge (1994)
(10) Day (1932)	(49) Hodge & Porter (1997)
(11) Hodge (2003)	(50) Porter (1997)
(12) Hodge (1993)	(51) Alexander (1998)
(13) Bedwell (1934)	(52) Hodge (1998)
(14) Bedwell (1945)	(53) Hodge (2002)
(15) Jones (1989)	(54) Lees (1995)
(16) Britten (1939)	(55) Hodge (2004)
(17) Massee (1952c)	(56) Hodge (2006)
(18) Collett (1936)	(57) Hodge (2007)
(19) Alexander (2001)	(58) Denton (2004a)
(20) Leston (1951)	(59) Malumphy <i>et al.</i> (2008)
(21) Massee (1952b)	(60) Brooke (2009)
(22) Woodroffe (1958)	(61) Ryan (2011)
(23) Massee (1952a)	(62) Hodge (2013)
(24) Massee (1953)	(63) Ryan (2013b)
(25) Hodge (1992)	(64) Huxley (2003)
(26) Woodroffe (1959c)	(65) Bantock (2014a)
(27) Le Quesne (1955)	(66) Bantock (2014b)
(28) Scudder (1957a)	(67) Denton (2004b)
(29) Scudder (1957b)	(68) Whitehead (2008)
(30) Massee (1959)	(69) Alexander (2008)
(31) Woodroffe (1959a)	(70) Butler (1906)
(32) Ryle (1960)	(71) Bloomfield (1912)
(33) Butler (1921)	(72) Moon (1937)
(34) Woodroffe (1959b)	(73) Roper (1994)
(35) Woodroffe (1960)	(74) Ryan (2015b)
(36) Jones (1977)	(75) Ryan (2015c)
(37) Hodge (1990)	(76) Denton (2017)
(38) Hodge (1984)	(77) Ryan (2018c)
(39) Jones (1984)	

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**A SEASONAL DISTRIBUTION OF THE ADULT
HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES**

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Introduction

Whereas the geographical (county) distribution of Butler (1923) has been kept up to date over the decades (Bedwell, 1945; Masee, 1955; Ryan, 2014), the seasonal distribution of this work has not. In fact, I have found only one published article in the entomological literature that refers to Butler's seasonal distribution tables (Bedwell, 1924). The present article therefore begins the process of bringing the seasonal distribution of the British Hemiptera-Heteroptera up to date.

Butler's seasonal data are based upon recording units of whole months, so there are a maximum of twelve records per species for the entire year. I take the view that this is too coarse a level of granularity to be useful, and here substitute whole months with sixths of months, or 'heximonths', thereby increasing the maximum number of records from twelve to 72. The first five heximonths are each five days in duration (1st to 25th of the month), and the final heximonth is three, four, five or six days long, depending upon the month and year.

I have chosen to encode heximonths with a number representing the month, 1 (January) to 12 (December) followed by upper case letters representing the sixth part of that month (A to F). Hence, 6A is the period 1st to 5th June, 7C represents 11th to 15th July, and 8F corresponds to 26th to 31st August. The use of heximonths lends itself readily to English expressions for parts of months, as illustrated below for the month of May.

5A: the beginning of May

5AB: early May

5ABC: the first half of May

5F: the end of May

5CD: the middle of May

5DEF: the second half of May

5EF: late May

Obviously, the use of such expressions in the interpretation of records would not be valid, as the writer may not be using the precise definitions suggested above. However, the above expressions do provide a ready means of converting the heximonth codes into English.

Although the use of heximonths greatly improves the resolution of the seasonal distribution, it does also mean that Butler's tabulated monthly records have to be discarded, unless they can be traced to a more precise date. Since, in the main, this is not possible the new seasonal distribution will have to be compiled afresh from new data. This will be a long process, and the distribution presented here is provisional only, the data having been extracted from a single source, Groves (1964-1986). This monumental work provides a good initial seasonal distribution for the species within its compass, that is species residing in the London area, excluding those recorded as new to Britain after the completion of Groves' work. The distribution will be updated incrementally during the species reviews, which will be presented in this journal from Volume 7 onwards. The more limited data available on the egg and nymph stages will also be gathered at this time.

Care needs to be exercised in the interpretation of the seasonal data. Very few published records concern themselves primarily with the date of occurrence, and the dates given for the records have to be regarded as being of incidental importance. Consequently, it is possible that date information is more prone to error and less likely to be the subject of a subsequent printed correction, if erroneous. Although Groves was most thorough in his work, including a lengthy section on corrigenda, his sources may not have been as accurate. I therefore believe that the seasonal data presented here, and in subsequent updates to the distribution, should be regarded as the starting point for specific field work aimed at confirming the true seasonal distribution of the British Hemiptera-Heteroptera.

The provisional seasonal distribution

ARADIDAE

Aneurus avenius (Dufour)

1-----2---D-3A-----4-----5AB---6-B---7-----8-----9-B---F10-----11-----12A-----

Aneurus laevis (Fabricius)

1-B---2-----3-----4A--DE-5A--D--6--C--7-----8---E-9-B---10----F11A---12-----

Aradus aterrimus Fieber

1-----2-----3-----4-----5-----F6-----7-----8-----9-----10-----11-----12-----

Aradus cinnamomeus Panzer

1-B---2-----F3-----4-BC---5-B---6--C--7-BC--F8-----F9ABC---10-----11-----12-----

Aradus corticalis (Linnaeus)

1-----2-----3-----4-----5-----6-----7-----8-----9-----10A---11-----12-----

Aradus depressus (Fabricius)

1-----2---EF3-----4-B--EF5-BCDEF6A-CD-F7-----8A---9---D-10-----11-----12-----

ACANTHOSOMATIDAE

Acanthosoma haemorrhoidale (Linnaeus)

1-----2---E-3-----4-B---5ABCDEF6A---E-7-----8--CD-F9A-CDEF10ABCD--11A-C--12-----

Cyphostethus tristriatus (Fabricius)

1A---2-----3-----F4--C--F5-----6-----7-----8-----9--C-EF10A-CDE-11--C--12-----

Elasmotethus interstinctus (Linnaeus)

1-----2-----3-----4-----5ABCDE-6A-CD-F7--C--F8--C-EF9AB-DE-10AB-D--11-----12-----

Elasmucha grisea (Linnaeus)

1-----2-----3-B--E-4A---EF5-BCDE-6ABCD-F7AB-D--8-BCDEF9ABCD--10A--E-11-B--12-----

CYDNIDAE

Adomerus biguttatus (Linnaeus)

1-----2-----3-----4--C--5-----6-----7-----8-----9---F10-----11-----12-----

Canthophorus impressus (Horváth)

1-B---2-----3-----4-B---5A---6-----7-----8-----9---D-F10-----11-----F12-----

Legnotus limbosus (Geoffroy)

1-----2A---3-----4-----5-B-DEF6ABC--7A---F8-----9---D-10-----11-----12-----

Legnotus picipes (Fallén)

1-----2-----3-----4-----5ABCD--6A---7-----8-----9-----10A---11-----12-----

Sehirus luctuosus Mulsant & Rey

1-----2-B---3-----4-----5-BC-E-6-B---7--D-F8A---F9-B---F10-----11-----12-----

Tritomegas bicolor (Linnaeus)

1-----2-----3-----F4-BCDEF5ABCDEF6ABCDE-7--DEF8--C--F9ABCD--10-----11A-C--12-----

THYREOCORIDAE

Thyreocoris scarabaeoides (Linnaeus)

1-----2-----3---D-F4ABC-EF5--CD-F6-----7-----8--D--9--C--F10A---11-----12-----

SCUTELLERIDAE

Eurygaster maura (Linnaeus)

1-----2-----3-----4-----5---E-6-----7A---E-8---D-F9---E-10-----11-----12-----

Eurygaster testudinaria (Geoffroy)

1-----2-----3-----4-----5-----6A---7-----8-----9-----10-C--11-----12-----

PENTATOMIDAE

Aelia acuminata (Linnaeus)

1-----2-----3-----4-----5---DEF6A---F7ABC--8--C-E-9AB---10-----11-----12-----

Dolycoris baccarum (Linnaeus)

1--D-2-----3-----4-----5--C--6AB--E-7---EF8A--DEF9A--D--10--C--11-----12-----

Eurydema dominulus (Scopoli)

1-----2-----3-----4-----5---E-6-----7-----8-----9-----10-C--11-----12-----

Eurydema oleracea (Linnaeus)

1-----2-----3-----4---E-5-BC-EF6A-C--F7A-C--F8-----9AB---10-----11-----12-----

PENTATOMIDAE (CONTINUED)

Eysarcoris aeneus (Scopoli)

1-----2-----3-----4-----5-----6-B-----7-----8-----9-----10-----11-----12-----

Eysarcoris venustissimus (Schränk)

1-----2-----3-----4--C-E-5---DEF6ABCDEF7ABCDEF8-B-D-F9--CDE-10-----11-----12-----

Neottiglossa pusilla (Gmelin)

1-----2-----3---E-4-----5-----F6-BCD--7AB--E-8--C--F9ABC--F10-----11-----12-----

Palomena prasina (Linnaeus)

1-----2-----3-----4A-----5ABCD-F6AB-D-F7-B-----8---D-F9A-CDEF10ABCD--11---D--12-----

Pentatoma rufipes (Linnaeus)

1-----2-----3-----4-----5-----6-----F7-BCDEF8ABC--F9ABC-EF10-B-D--11-----12-----

Peribalus strictus (Fabricius)

1-----2-----3-----4-----5-----F6---D--7-----8-----9-----10-----11-----12-----

Picromerus bidens (Linnaeus)

1-----2-----3-----4-----5-----6-----7--CD-F8A-CD-F9ABCDEF10A-CDE-11-----12-----

Piezodorus lituratus (Fabricius)

1-----2---D-3---E-4---DE-5-BCDEF6-BCD--7-----8-B-D-F9A--D-F10ABCD--11-----12-----

Podops inunctus (Fabricius)

1-----2A-----3--C--F4AB--F5AB-DEF6A--D--7---D-F8AB--E-9--CDE-10A-C-E-11AB--F12-B---

Rhacognathus punctatus (Linnaeus)

1-----2-----3-----4-----5ABC--6A-----7--CD--8A--D--9A-----10-----11-----12-----

Sciocoris cursitans (Fabricius)

1-----2A-----3-----4--CDE-5-B--F6-B-DE-7---D-F8A---F9--C--10-----11-----12-----

Troilus luridus (Fabricius)

1-----2-B-D-3-----F4AB--F5ABC--6-----7-BC-EF8---DE-9-BCDE-10AB-DE-11-BC--12-----

Zicrona caerulea (Linnaeus)

1-----2-----3-----4A--D--5AB--6-BC--F7---D-F8---D-F9A-C--10---DE-11-----12-----

COREIDAE

Bathysolen nubilus (Fallén)

1-----2-----3-----4-B--5-----6-----7-B--EF8---F9A-----10-----11-----12-----

Ceraleptus lividus Stein

1-----2-----3-----4---E-5-----6A---E-7-----8---E-9ABC--10-B-D--11A-----12-----

Coreus marginatus (Linnaeus)

1-----2-----3-----4-----5-BC-E-6AB--7AB--E-8-B--EF9-B--EF10A-----11-----12-----

Coriomeris denticulatus (Scopoli)

1-----2-----3A-----4-B-D--5ABC-EF6ABCD-F7-BC--F8-BCDE-9ABC--10A-----11-----12-----

Gonocerus acuteangulatus (Goeze)

1-----2-----3-----4-----5A-C-E-6-----7-B--8-----F9--CD--10---D--11-----F12-----

Spathocera dalmanii (Schilling)

1-----2-----3-----4-----5---F6-----7---F8---F9AB--10-B--11-----12-----

Syromastus rhombeus (Linnaeus)

1-----2-----3-----4---E-5-B--6A---7---E-8-B--F9---F10A-----11---F12---F

ALYDIDAE

Alydus calcaratus (Linnaeus)

1-----2-----3-----4-----5---D-F6-B--7ABCD--8-BC-EF9-B--10-----11A-----12-----

RHOPALIDAE

Liorhyssus hyalinus (Fabricius)

1-----2-----3-----4-----5-----6-----7-----8-----9--C--10-----11-----12-----

Myrmus miriformis (Fallén)

1-----2-----3-----4-----5-----6--CD--7ABCDEF8ABCDE-9ABCDEF10A-----11-----12-----

Rhopalus maculatus (Fieber)

1-----2-----3-----4-----5---D-F6---D--7-----8-B-D--9-B--10---D--11--C--12-----

Rhopalus parumpunctatus Schilling

1-----2-----3-----4-----5-----6-----7-B--EF8--CD-F9AB-D--10-----11-----12-----

Rhopalus rufus Schilling

1-----2-----3-----4--C--5-B--6-----7-----8-----9ABC--10-----11-----12-----

RHOPALIDAE (CONTINUED)

Rhopalus subrufus (Gmelin)

1-----2-----3-----4---DE-5-----F6A--DE-7---D-F8---DE-9ABC-E-10AB---11-----12-----

STENOCEPHALIDAE

Dicranocephalus medius (Mulsant & Rey)

1-----2-----3A-----4-----5-B---6---E-7-----8A-----9-----10-----11-----12-----

LYGAEIDAE

Acompus rufipes (Wolff)

1-----2-----3-----4-----5-----F6A-C--F7-----8-----9-----10-----11-----12-----

Chilacis typhae (Perris)

1-----2-----3-----4---D-5---E-6-----7---F8-B-DE-9---D-F10-----11-----12-----

Cymus aurescens Distant

1-----2-----3-----4-----5--C--6---F7-----8-----9-----10-----11-----12-----

Cymus claviculus (Fallén)

1-----2-----3A---F4---E-5-B-DE-6AB---F7-BCDEF8-B-DEF9AB-DEF10---EF11---DE-12-----

Cymus glandicolor Hahn

1-----2-----3---F4---D-5---C-EF6A---7-B-E-8ABCD--9A--D-10-----11-----12-----

Cymus melanocephalus Fieber

1-B---2-----3---F4-----5--CD-F6-B---F7ABC-EF8AB-D-F9ABCD-F10---E-11-----12-----

Drymus brunneus (R.F. Sahlberg)

1-B---2---E-3-BC--F4A--D-F5--CD-F6A--DE-7---EF8ABCD--9-B-D--10--CD-F11--C--12--C--

Drymus latus Douglas & Scott

1-----2---E-3-----4-----5-----6-----7-----8-----9--C--10A---11-----12-----

Drymus pilicornis (Mulsant & Rey)

1-----2---D-3-----4A---5-----6-----7-----8---DE-9A---F10AB-D-11-----12-----

Drymus pilipes Fieber

1-----2-----3-----4-----5-----6-----7-----8-----9-BC-E-10-----11-----12-----

Drymus ryeii Douglas & Scott

1-----2--C--3-BC--4-BCD-5-B-DEF6--C--7-----8-----9-----10A--E-11-----12-----

Drymus sylvaticus (Fabricius)

1-B--EF2A-CD-F3A-CDE-4ABCDE5ABCDE-6ABCD-F7A-----8ABCDE9ABC-EF10A-CDEF11A--DE-12--C--F

Eremocoris podagricus (Fabricius)

1-----2-----3A-----4-B-DEF5ABC--F6-----F7-----8-----9--C-E-10--C--11-----12-----

Gastrodes grossipes (De Geer)

1A-----2-----3-B--EF4ABC--5--CD-F6--C--F7-B-D--8-B--EF9--C--F10A---11--D-12-----

Graptopeltus lynceus (Fabricius)

1-----2A-----3-----4---D-5---E-6-----7-----8-----9-----10-----11-----12-----

Henestaris halophilus (Burmeister)

1-----2-----3-----4-----5-----6-----7-----8-----9-B--10-----11-----12-----

Heterogaster artemisiae Schilling

1-----2-----3-----4-----5-----6-----7A-----8-B-D--9A-----10-----11-----12-----

Heterogaster urticae (Fabricius)

1-----2-----3-----4A---F5-B-D-F6--CDEF7A-C-E-8A--D-F9ABCDE10A-C-E-11---E-12A--D--

Ischnocoris angustulus (Boheman)

1-----2A-----3---E-4-----5---D-6-----7---F8--C-E-9ABCDE10A---11-----12ABCDE

Ischnodemus sabuleti (Fallén)

1---E-2A---3-B-DE-4---DEF5ABCDE6-B-D-F7-B-DEF8-BC-E-9--C--F10---F11-----12-----

Kleidocerys ericae (Horváth)

1-----2-----3---E-4-----5---EF6-BCD-F7---F8A--DEF9A--DE-10-----11-----12-----

Kleidocerys resedae (Panzer)

1-----2-----3-----4AB-DE-5---DEF6A-CDEF7-B--E-8ABC---9ABCDE10--C--F11---E-12-----

Lamproplax picea (Flor)

1-----2-----3-----4-----5-----6-----7-----8-----9--D-10--D-11-----12-----

Lasiosomus enervis (Herrich-Schaeffer)

1-----2-----3--C--4-----5-----6-----7-----8-----9-----10-----11-----12-----

Macrodemus microptera (Curtis)

1-----2A-----3--C--F4A--D-5A-CDEF6---F7--C--8-BCDEF9-B-D-F10---11-----12-----

LYGAEIDAE (CONTINUED)

Megalonotus antennatus (Schilling)

1-----2A--E-3-----4-----5-----6-----7-----8-----9-----10-----11-----12-----

Megalonotus dilatatus (Herrich-Schaeffer)

1-----2-----3A-----4-----F5AB--E-6AB--E-7-----8--C-E-9A-----10-----11-----12-----

Metopoplax ditomoides (A. Costa)

1-----2-----3-----4-----5-----6-----7-----8-----9--D-10-----11-----12-----

Nysius ericae (Schilling)

1-----2-----3-----4-----5-----6-----7-----8--D-9-----10-----11-----12-----

Nysius helveticus (Herrich-Schaeffer)

1-----2-----3-----4-----5-----6-----7-----8--E-9-BC--10-----11-----12-----

Pachybrachius fracticollis (Schilling)

1-----2-----3-----4-----5-----6-----7-----8--C-9-----10-----11-----12-----

Peritrechus geniculatus (Hahn)

1-----2-----3A-----4--D-F5-BC--6--E-7-----8A-----9-B-D-10--E-11-----12-----

Peritrechus lundii (Gmelin)

1-----2-----3--E-4ABC--5-BCD-F6-----7-----8-----9-BCD-F10A--F11-----12-----

Plinthisus brevipennis (Latreille)

1-----2-----3--C--4-----5-B--6A--DE-7--E-8--D-F9-----10-----11-----12-----

Raglius alboacuminatus (Goeze)

1-----2-----3-----4--D-5--D-6--E-7-----8-----9-----10A-----11-----12-----

Rhyparochromus pini (Linnaeus)

1-B--F2-----3-B--4--E-5--EF6-B--7-----8--C--9ABCD--10--C--11-----12-----

Scolopostethus affinis (Schilling)

1-B--E-2--CD-F3ABCDE-4-B--EF5-B-DEF6ABCDEF7A--DEF8--D-F9A-CDEF10A--F11--E-12--CD--

Scolopostethus decoratus (Hahn)

1-----2A-----3--CD--4A-C-EF5--C--F6-----7-B--8A-C-EF9ABCDE-10A-C-E-11A-----12--C-E-

Scolopostethus grandis Horváth

1-----2-----3-----4-----5-B-D-6--E-7-----8--E-9-----10-----11--E-12-----

Scolopostethus pictus (Schilling)

1-----2-----3-----4-----5-----6--D-7-----8-----9-----10-----11-----12-----

Scolopostethus thomsoni Reuter

1-----2-----3--F4--D-F5A-CD--6A--EF7ABCD--8ABC-EF9ABC--10A--11-----12-----

Stygnocoris fuliginus (Geoffroy)

1--DE-2--F3ABC-EF4A-CD--5-B-DEF6-B--7A--EF8-B--EF9A--D-F10--E-11A--12--F

Stygnocoris rusticus (Fallén)

1-----2-B--3--C--4--E-5-----6-----7--D-F8-BC-EF9ABCDEF10A-C-E-11-----12-----

Stygnocoris sabulosus (Schilling)

1-----2A-----3A-----4--E-5-B-D-6-B--EF7--DEF8ABCD-F9ABCDEF10ABCDEF11A--E-12--C--

Taphropeltus contractus (Herrich-Schaeffer)

1-----2A--F3A--4--CDEF5ABCD--6A--7AB--F8-B--EF9AB-D-F10-B-D-11--E-12-B-D--

Taphropeltus hamulatus (Thomson)

1-----2-----3--F4--5-B--6-----7-----8--E-9--C--10-----11-----12-----

Trapezonotus arenarius (Linnaeus)

1-----2-----3-----4--D-5-----6-----7A--8A--9-----10-----11-----12-----

Trapezonotus dispar Stål

1-----2-----3-----4--F5-B--6-----7--C-E-8A--EF9--C--10A--11-----12-----

Tropistethus holosericus (Scholtz)

1-----2-----3-B--4-BCD-5-BC-EF6-----7-----8A--D--9A-C--F10-B--E-11--E-12-----

BERYTIDAE

Berytinus clavipes (Fabricius)

1-----2-----3-----4A-C--5A--EF6-B--7--D-8--CD-F9--C-E-10-----11-----12-----

Berytinus crassipes (Herrich-Schaeffer)

1-----2-----3--F4ABC--5-----6-----7AB--E-8AB--9--C--10A-CD--11-----12-----

Berytinus minor (Herrich-Schaeffer)

1--C--2-----3--CD-F4--CD--5ABCDEF6--C-E-7A--8ABC-E-9ABC--10A--11A--E-12--F

Berytinus montivagus (Meyer-Dür)

1-----2A-----3-----4-----5A--F6-----7ABC--8-BCD--9A-C--10A--11-----12-----

BERYTIDAE (CONTINUED)

Berytinus signoreti (Fieber)

1-----2-----3A---F4-----5A---EF6AB-D--7--C-E-8-BC--F9ABCD-F10A---11A---12-----

Gampsocoris punctipes (Germar)

1-----2-----3-----4---D-F5---D-F6-B---7---E-8A-CDEF9A--DE-10-----11-----12---D--

Metatropis rufescens (Herrich-Schaeffer)

1-----2-----3-----4---C---5---F6---D-F7-BC---8AB---F9AB---F10A-CD--11-----12-----

Neides tipularius (Linnaeus)

1-----2-----3-----F4-----5---F6---D-7-----8---E-9-B-D-10A---11-----12-----

PIESMATIDAE

Parapiesma quadratum (Fieber)

1-----2-----3-C---4---E-5A-CD--6-B-D-7---DEF8-B---F9-BC--10A---11-----12-----

Piesma maculatum (Laporte)

1-----2-B---F3A---4--CD--5-BCD--6ABCD--7---EF8-B---F9-BC-E-10-B---11---E-12---E-

TINGIDAE

Acalypta carinata (Panzer)

1-----2-----3-----4-----5-BCDE-6-BC--F7---D-8-----9--C--10-B---11-----12-----

Acalypta parvula (Fallén)

1-----2---E-3-B-DE-4ABC--5---F6A---7---F8---DEF9ABCDEF10A--D--11-----12---D--

Acalypta platycheila (Fieber)

1-----2-----3-----4-----5---E-6-----7-----8-----9-----10-----11-----12-----

Agramma laetum (Fallén)

1-----2-----3---E-4-----5---F6-B---7-----8-----9--C--10-----11-----12-----

Campylosteira verna (Fallén)

1-----2A-----3--C-E-4ABCDE-5---F6-----7-----8--D-9-B---10-B---11-----12---D--

Catoplatus fabricii (Stål)

1-----2-----3-----4-B---5--C--F6-----7-----8--DE-9-B-DEF10-BC--11-----12-----

Derephysia foliacea (Fallén)

1---E-2-----3-B---4-----5-----6-----7A--DEF8ABCDEF9-BCD--10-B-D--11-----12-----

Dictyla convergens (Herrich-Schaeffer)

1-----2-----3-----4---D-5---F6-B--E-7---DE-8AB-DE-9-BC--F10-----11-----12-----

Dictyonota fuliginosa A. Costa

1-----2-----3-----4-----5-----6-----7-B--EF8-BC--9-B---10-----11-----12-----

Dictyonota strichnocera Fieber

1-----2-----3-----4-----5-----6---E-7-BCDEF8ABCD-F9A--DE-10-----11-----12-----

Kalama tricornis (Schränk)

1-----2-----3-----4-----5-----6-BC-E-7---DEF8AB--F9---D-10-----11-----12-----

Oncochila simplex (Herrich-Schaeffer)

1-----2-----3-----4-----5-----6-----7-----8A---9-----10-----11-----12-----

Physatocheila dumetorum (Herrich-Schaeffer)

1-----2-----3-----4--CD--5---F6AB--7---E-8-----9-BC-E-10-----11-----12-----

Physatocheila smreczynskii China

1-----2-----3-----4-----5--C--6-----7-----8-----9-----10-----11-----12-----

Stephanitis rhododendri Horváth

1-----2-----3-----4-----5-----6-----7--CD-F8AB-DE-9---D-10-----11-----12-----

Tingis ampliata (Herrich-Schaeffer)

1-----2---DE-3A-C---4A--DEF5-BCDEF6ABCDEF7ABC-EF8ABC-EF9AB---10-B-DEF11-B---12-----

Tingis cardui (Linnaeus)

1-----2---F3A---4--CD--5A-CDEF6ABCDEF7AB---8A-CD-F9A-CDEF10---E-11---E-12-----

Tingis reticulata Herrich-Schaeffer

1-----2-----3-----4---E-5-B-D--6-B--E-7---E-8A---9---D-10A---11---E-12-----

REDUVIIDAE

Empicoris baerensprungi (Dohrn)

1-----2-----3-----4-----5-----6-----7-----8-----F9-----10-----11-----12-----

Empicoris culiciformis (De Geer)

1-B-D--2---E-3-----4-B---5--C-E-6--C-E-7---D-8-B-DEF9--CD-F10A-C---11AB---12---D--

REDUVIIDAE (CONTINUED)

Empicoris vagabundus (Linnaeus)

1-----2-----3-----4-----5-----6-----7-----8ABCDEF9ABCDEF10--C--11-----12-----

Reduvius personatus (Linnaeus)

1-----2-----3-----4-----E-5-----6-----EF7A--D--8-----9-----10-----11-----12-----

NABIDAE

Himacerus apterus (Fabricius)

1-----2-----3-----4-----5-----6-----E-7-----E-8ABCDEF9ABCDEF10ABC-E-11-----12-----

Himacerus boops (Schjødt)

1-----2-----3-----4-----5-----6-----F7--C-EF8ABC--9-B--10-----11-----12-----

Himacerus major (A. Costa)

1-----2-----3-B--4-----5-----6-----F7A-CDEF8-BCDEF9ABCDEF10A-CDE-11A--D--12-----

Himacerus mirmicoides (O. Costa)

1-----2-----3--D--4--CD-F5-BCD-F6-BC--7--EF8ABCDEF9ABCDEF10ABCDE-11A--12-B--

Nabis brevis Scholtz

1-----2-----3-----4-----5-----6-----7-----8-----9-----F10-----11-----12-----

Nabis ericetorum Scholtz

1-----F2--D--3--C-E-4A--5-B-DEF6--C--F7-BCDEF8AB-DEF9ABCD--10ABCD--11A--F12-----

Nabis ferus (Linnaeus)

1--CD--2A--F3-B--EF4A--E-5--C--F6-B--F7A-CD--8-BCD-F9ABCDEF10A-CDE-11--DE-12-----

Nabis flavomarginatus Scholtz

1-----2-----3-----4-----5-----6-----F7ABCDEF8ABCDEF9ABCDEF10-----11-----12-----

Nabis limbatus Dahlbom

1-----2-----3--D--4-----5-----6-----F7A-CDEF8ABCDEF9ABCDEF10ABCDE-11-----12-----

Nabis rugosus (Linnaeus)

1A--EF2-----3--C--4ABCDE-5ABCDEF6ABCDEF7A-CD-F8ABCDEF9ABCDEF10ABCDE-11A--12-----

ANTHOCORIDAE

Acomporis alpinus Reuter

1-----2-----3-----4-----5-----F6-----7-----E-8-B--F9--E-10-----11-----12-----

Acomporis pygmaeus (Fallén)

1-----2-----3-----4-----5-----6-B--F7ABCDE-8ABCDEF9A-CD-F10AB--E-11-----12-----

Anthocoris butleri Le Quesne

1-----2-----3-----4-----5-----F6-B-D--7--D--8--E-9--CD-F10-----11-----12-----

Anthocoris confusus Reuter

1-B--2--C--F3ABCDE-4ABCDEF5ABCDEF6ABC-E-7ABCDEF8ABCDE-9ABCDE-10AB-DE-11-BC--12A--

Anthocoris gallarumulmi (De Geer)

1-----2-----3-----4A--D-F5-BC-EF6--F7ABCDEF8--CDEF9ABC-E-10-----11-----12-----F

Anthocoris limbatus Fieber

1-----2-----3-----4-----5-----6-----7--D--8--F9A--EF10-----11-----12-----

Anthocoris nemoralis (Fabricius)

1A--2--F3-BCDE-4ABCDEF5ABC-EF6--CDEF7ABCDEF8ABCDEF9A-CD--10ABC--F11-B-D--12-----

Anthocoris nemorum (Linnaeus)

1--E-2A--F3--DEF4ABCDEF5ABCDEF6AB-DEF7ABCDEF8ABCD-F9ABCDEF10AB-D--11A-C-E-12--C-E-

Anthocoris sarothamni Douglas & Scott

1-----2-----3-----4-----5-BC-E-6--C--F7ABC-EF8-----9--D--10-----11-----12-----

Anthocoris simulans Reuter

1-----2-----3-----4-----5-----6-----7--C--8-B--9A-CD--10-----11-----12-----

Cardiastethus fasciiventris (Garbiglietti)

1-----2-----3-----4-----5AB--6A--7-----8--F9A--10A--11-----12-----

Dufouriellus ater (Dufour)

1-----2-----3-B--4A-C--5A--6-----7-----8--F9AB-D--10--C--11A--12-----

Elatophilus nigricornis (Zetterstedt)

1-----2-----3-----4-----5-----6--EF7A--8--E-9-----10-----11-----12-----

Lyctocoris campestris (Fabricius)

1-----2--C--F3A--E-4-BC--5AB-DEF6-BC--F7A-CDE-8-B--EF9ABCDE-10A-C--11--DE-12-----F

Orius laevigatus (Fieber)

1-----2-----3-----4-----5-----6--F7--E-8--9AB--10A--11-----12-----

ANTHOCORIDAE (CONTINUED)

Orius majusculus (Reuter)

1-----2-----3-----4---DE-5--C---6A-C---7A-CD-F8-BC-EF9A--D--10A-----11-----12-----

Orius niger (Wolff)

1-----2-----3-----4-----5-----6---D--7A---EF8ABC--F9-BCD--10A-----11-----12-----

Temnostethus gracilis Horváth

1-----2-----3-----4-----5-----6-B---7A---E-8--C---9-B---10-----11-----12-----

Tetraphleps bicuspis (Herrich-Schaeffer)

1-B---2-----3-----4-----5-----6A-----7AB-D--8-BCD-F9-BC-E-10ABC-E-11-----12-----

Xylocoridea brevipennis Reuter

1-----2-----3A-----4-----5-----6-----7-----8-----9-----10-----F11-----12-----

Xylocoris cursitans (Fallén)

1-----2A-----3-----F4AB--EF5-----6--C-EF7A-CDE-8ABCD-F9--C-EF10A-C--11-----12-----

Xylocoris formicetorum (Boheman)

1-----2-----3-C---4-----5-----6-----7---D--8-----F9-B---10---D--11-----12-----

Xylocoris galactinus (Fieber)

1-----2-----3-----4-C---5-----6-B-D-F7---DEF8-BCD-F9A-C-E-10AB---11-----12-----

CIMICIDAE

Cimex lectularius Linnaeus

1-----2---E-3A-----4---D--5A-----6A-C---7-----8-C---9---E-10-----11A-----12-----

Cimex pipistrelli Jenyns

1-----2-----3-----4---E-5-----6-----7---F8-----9-----10-----11-B---12-----

Oeciacus hirundinis (Lamarck)

1-----2---D-3A-----4---F5-----6-B---7-----8-----9-----10-----11-----12-----

MICROPHYSIDAE

Loricula coleoptrata (Fallén)

1-----2-----3-----4-----5-----6---EF7-B---8-----9-----10-----11-----12-----

Loricula distinguenda (Reuter)

1-----2-----3-----4-----5-----6--C-E-7-BCD--8A-C--F9-----10-----11-----12-----

Loricula elegantula (Baerensprung)

1-----2-----3-----4-----5-----6---F7A-CDEF8ABC--9-----10-----11-----12-----

Loricula exilis (Fallén)

1-----2-----3-----4-----5-----6-----7-----8-B---9-C--10-----11-----12-----

Loricula pselaphiformis Curtis

1-----2-----3-----4-----5-----6--CD-F7A--E-8-B---9-----10-----11-----12-----

MIRIDAE

Acetropis gimmerthalii (Flor)

1-----2-----3-----4-----5-----6ABCDEF7ABCDEF8---E-9-----10-----11-----12-----

Adelphocoris lineolatus (Goeze)

1-----2-----3-----4-----5-----6-----7-BCDEF8ABCDEF9ABCD-F10AB---11-----12-----

Adelphocoris ticinensis (Meyer-Dür)

1-----2-----3-----4-----5-----6---F7---8AB-DEF9-BC--10-----11-----12-----

Alloeotomus gothicus (Fallén)

1-----2-----3-----4-----5-----6-----7---DE-8-B-D--9--CDEF10-----11-----12-----

Amblytylus brevicollis Fieber

1-----2-----3-----4-----5-----6---D--7--CDEF8-B---9-----10-----11-----12-----

Amblytylus delicatus (Perris)

1-----2-----3-----4-----5-----6-----7-B---8-----9-----10-----11-----12-----

Amblytylus nasutus (Kirschbaum)

1-----2-----3-----4-----5-----6---DEF7ABCDEF8-B---9-----10-----11-----12-----

Apolygus limbatus (Fallén)

1-----2-----3-----4-----5-C--6-----7-----8-C--9-----10-----11-----12-----

Apolygus lucorum (Meyer-Dür)

1-----2-----3-----4-----5---E-6-B--E-7ABCDEF8ABCDEF9A-C--10A-----11-----12-----

Apolygus spinolae (Meyer-Dür)

1-----2-----3-----4-----5-----6-----7ABCDEF8ABCDE-9-----10AB---11-----12-----

MIRIDAE (CONTINUED)

Asciodema obsoleta (Fieber)

1-----2-----3-----4-----5-----6--C-EF7A-CDEF8ABC--F9--D--10-----11-----12-----

Atractotomus magnicornis (Fallén)

1-----2-----3-----4-----5-----6---EF7A-CD-F8ABCDE-9A--DEF10-----11-----12-----

Atractotomus mali (Meyer-Dür)

1-----2-----3-----4-----5-----6--CDEF7ABCDE-8-B---9---F10-----11-----12-----

Blepharidopterus angulatus (Fallén)

1-----2-----3-----4-----5-----6--D-F7ABCDE8ABCDE9ABCDE10AB--F11-----12-----

Blepharidopterus diaphanus (Kirschbaum)

1-----2-----3-----4-----5-----6-----7--CDEF8ABCD-F9A-CD--10-----11-----12-----

Brachyarthrum limitatum Fieber

1-----2-----3-----4-----5-----6---E-7AB-D--8-----9-----10-----11-----12-----

Bryocoris pteridis (Fallén)

1-----2-----3-----4-----5-----6-----7ABCDE-8--D--9--C--F10A-----11-----12-----

Calocoris roseomaculatus (De Geer)

1-----2-----3-----4-----5-----6---DEF7ABCDE8ABCDE9-B---10-----11-----12-----

Camptozygum aequale (Villers)

1-----2-----3-----4-----5-----6---EF7-BCDEF8ABCD--9-----10-----11-----12-----

Campylomma verbasci (Meyer-Dür)

1-----2-----3-----4-----5-----6--D--7ABC--F8-BCDEF9A-CD--10-----11-----12-----

Campyloneura virgula (Herrich-Schaeffer)

1-----2-----3-----4-----5-----6---F7ABCDE8ABCDE9--C--10-----11-----12-----

Capsodes flavomarginatus (Donovan)

1-----2-----3-----4-----5-----6-BC--7A--D--8-----9-----10-----11-----12-----

Capsodes gothicus (Linnaeus)

1-----2-----3-----4-----5-----6---E-7ABCD-F8A-C--9---F10-----11-----12-----

Capsus ater (Linnaeus)

1-----2-----3-----4-----5-----6ABCDE7ABCDE8ABCDE-9A-----10-----11-----12-----

Charagochilus gyllenhalii (Fallén)

1-----2-----3--D-F4A--5A--EF6-BCDE-7ABC-EF8ABCDE9A--DEF10-----11-----12-----

Chlamydatius pullus (Reuter)

1-----2-----3-----4-----5---F6-B---7AB-D-F8ABCDE9-B---10-----11-----12-----

Chlamydatius saltitans (Fallén)

1-----2-----3-----4-----5---F6-C--7--CD--8A-C--9AB--F10-----11-----12-----

Closterotomus fulvomaculatus (De Geer)

1-----2-----3-----4-----5---F6--CDEF7ABCDE8--C--9-----10-----11-----12-----

Closterotomus norwegicus (Gmelin)

1-----2-----3-----4-----5-----6-BCDEF7ABCDE8ABCD-F9ABCD--10-----11-----12-----

Compsidolon salicellum (Herrich-Schaeffer)

1-----2-----3-----4-----5-----6---E-7--CDEF8ABCDE9-BC--10-----11-----12-----

Conostethus griseus Douglas & Scott

1-----2-----3-----4-----5-----6--D-F7-----8-----9-----10-----11-----12-----

Conostethus roseus (Fallén)

1-----2-----3-----4--D--5-----6-BCDE-7-----8-----9-----10-----11-----12-----

Cyllecoris histrionius (Linnaeus)

1-----2-----3A-----4-----5---F6ABCDE7ABCDE8-----9-----10-----11-----12-----

Cyrtorhinus caricis (Fallén)

1-----2-----3-----4-----5-----6-----7--CDEF8ABCDE-9AB--10-B--11-----12-----

Deraeocoris lutescens (Schilling)

1-----2A-C--F3A-CD--4AB--5A-C-EF6-BCDE-7A-CDEF8ABCDE9ABCDE10-BC-EF11-B--12-----F

Deraeocoris olivaceus (Fabricius)

1-----2-----3-----4-----5-----6--CDEF7ABCD--8-B--9-----10-----11-----12-----

Deraeocoris ruber (Linnaeus)

1-----2-----3-----4-----5---E-6--D--7ABCDE8ABCDE9A-C-E-10-----11-----12-----

Deraeocoris scutellaris (Fabricius)

1-----2-----3-----4-----5-----6--CDEF7ABCDE-8-----9-----10-----11-----12-----

Dichroscytus gustavi Josifov

1-----2-----3-----4-----5-----6-CD--7--C-EF8-----9-----10-----11-----12-----

MIRIDAE (CONTINUED)

Dichroscytus rufipennis (Fallén)

1-----2-----3-----4-----5-----6-B-DEF7ABCDE-8-B---9-----10-----11-----12-----

Dicyphus annulatus (Wolff)

1-----2-----3-----4-----5-----E-6--C-E-7A-C---8-----EF9AB-D--10-B---11-----12-----

Dicyphus constrictus (Boheman)

1-----2-----3-----4-----5-----6-----7-----E-8---E-9---E-10A--E-11-----12-----

Dicyphus epilobii Reuter

1-----2-----3-----4-----5-----6-----F7-BCDEF8ABC-EF9ABC-EF10-----11-----12-----

Dicyphus errans (Wolff)

1-----2-----3-----4-----5---D-F6--CDEF7AB-DEF8AB-DEF9AB-DEF10ABCDEF11-----12-----

Dicyphus globulifer (Fallén)

1-----2-----3-----4---D-F5A--D--6A--DE-7ABC-EF8ABCDEF9--C--F10-----11-----12-----

Dicyphus pallicornis (Fieber)

1-----2-----3-----F4-----5-----6---DEF7A-CDEF8ABCD-F9--C--10-----11-----12-----

Dicyphus stachydis J. Sahlberg

1-----2-----3-----4---DE-5ABCDEF6---D-F7ABCDE-8ABCDE-9ABCDE-10--C-E-11-----12-----

Dryophilocoris flavoquadrimaculatus (De Geer)

1-----2-----3-----4-----5-BC-EF6ABCDE-7--C-E-8---E-9-----10-----11-----12-----

Fieberocapsus flaveolus (Reuter)

1-----2-----3-----4-----5-----6-----7---D-F8ABCD--9AB-D--10-----11-----12-----

Globiceps flavomaculatus (Fabricius)

1-----2-----3-----4-----5-----6-----7---F8---F9-----10-----11-----12-----

Globiceps fulvicollis Jakovlev

1-----2-----3-----4-----5-----6--C--7--C--8A-----9-----10-----11-----12-----

Globiceps juniperi Reuter

1-----2-----3-----4-----5-----6--D--7-BC--8-----9-----10-----11-----12-----

Grypocoris stysi (Wagner)

1-----2-----3-----4-----5-----6-BCDEF7ABCDEF8ABC--9---E-10-----11-----12-----

Hallodapus montandoni Reuter

1-----2-----3-----4-----5-----6---F7---D-F8A--E-9-----10-----11-----12-----

Hallodapus rufescens (Burmeister)

1-----2-----3-----4-----5-----6--D--7--CDEF8--C-E-9-----10-----11-----12-----

Halticus apterus (Linnaeus)

1-----2-----3-----4-----5-----6-----7---EF8-B-DEF9-----10-----11-----12-----

Halticus luteicollis (Panzer)

1-----2-----3-----4-----5-----6-----7---F8-----9-----10-----11-----12-----

Harpocera thoracica (Fallén)

1-----2-----3-----4-B---5A-CDEF6ABCD--7A-----8-----9-----10-----11-----12-----

Heterocordylus genistae (Scopoli)

1-----2-----3-----4-----5-----6---F7-B--EF8-----9-----10-----11-----12-----

Heterocordylus tibialis (Hahn)

1-----2-----3-----4A---5--C--F6ABCDEF7ABCDE-8-----9-----10-----11-----12-----

Heterotoma planicornis (Pallas)

1-----2-----3-----F4-----5-----6---F7ABCDEF8ABCDEF9A--E-10-----11-----12-----

Hoplomachus thunbergii (Fallén)

1-----2-----3-----4-----5-----6-B-DEF7ABCD--8-----9-----10-----11-----12-----

Leptopterna dolabrata (Linnaeus)

1-----2-----3-----4-----5-----F6-BCDEF7ABCDEF8ABC--9---E-10-----11-----12-----

Leptopterna ferrugata (Fallén)

1-----2-----3-----4-----5--C--6--CDEF7ABCDE-8-----9-----10-----11-----12-----

Liocoris tripustulatus (Fabricius)

1A---2-B---3A-C-E-4AB-DEF5ABCDEF6A-CDEF7ABCDEF8ABCDEF9ABCDEF10A--D-F11-----12-----

Lopus decolor (Fallén)

1-----2-----3-----4-----5-----6---E-7-BCDEF8AB-D--9-B---10-----11-----12-----

Lygocoris pabulinus (Linnaeus)

1-----2-----3-----4-----5---E-6ABCDEF7AB-DEF8ABCDEF9ABCDEF10--C--11-----12-----

Lygocoris rugicollis (Fallén)

1-----2-----3-----4-----5---E-6-B-DEF7ABCDEF8--C--F9-B---10-----11-----12-----

MIRIDAE (CONTINUED)

Lygus maritimus Wagner

1-----2-----3-----4-----5A--E-6---D--7A--DEF8---D--9AB-D-F10ABCD-F11-----12-----

Lygus pratensis (Linnaeus)

1-B---2-----3-----4-----5-----6-----7-----8-----9-----10A-----11-----12-----

Lygus rugulipennis Poppius

1-B-D--2A---EF3ABCD--4--CD--5-BC--F6---DEF7ABCDEF8ABCDEF9ABC-EF10ABCDEF11AB-D--12-----

Macrolophus pygmaeus (Rambur)

1-----2-----3-----4-----5--C-F6-----7-BCD--8--CD--9-----10-----11-----12-----

Macrolophus rubi Woodroffe

1-----2-----3-----4-----5-----6-----7---EF8-B-D--9-----10-----11-----12-----

Macrotylus paykullii (Fallén)

1-----2-----3-----4-----5---E-6---EF7-BCD--8-B-D--9-----10-----11-----12-----

Macrotylus solitarius (Meyer-Dür)

1-----2-----3-----4-----5-----6--C-E-7AB-DEF8ABCDE-9-----10-----11-----12-----

Malacocoris chlorizans (Panzer)

1-----2-----3-----4-----5-----6--C--7---DEF8ABCDEF9ABCDEF10-BC--11A-----12-----

Mecomma ambulans (Fallén)

1-----2-----3-----4-----5-----6--C-EF7ABCDEF8ABCDE-9A-----10-----F11-----12-----

Megacoelum beckeri (Fieber)

1-----2-----3-----4-----5-----6-----7---E-8A--DEF9AB-D-F10A-----11-----12-----

Megacoelum infusum (Herrich-Schaeffer)

1-----2-----3-----4-----5-----6-----7-BC-EF8ABCDEF9ABCDEF10-BC--11-----12-----

Megaloceroea recticornis (Geoffroy)

1-----2-----3-----4-----5-BC--6---F7ABCDEF8ABCDE-9A-CDE-10AB--E-11-----12-----

Megalocoleus molliculus (Fallén)

1-----2-----3-----4-----5-----6---F7ABCDEF8ABC--F9A--D--10-----11-----12-----

Megalocoleus tanacetii (Fallén)

1-----2-----3-----4-----5-----6---F7--CDE-8--CDEF9--C-E-10-----11-----12-----

Miris striatus (Linnaeus)

1-----2-----3-----4-----5---EF6ABCD--7A---F8-----9-----10-----11-----12-----

Monalocoris filicis (Linnaeus)

1-----2-----3-----4---F5A-CD-F6-BCDEF7A--DEF8ABCDEF9ABCDE-10AB--11---E-12-----

Myrmecoris gracilis (R.F. Sahlberg)

1-----2-----3-----4-----5-----6---F7-----8-----9-----10-----11-----12-----

Neolygus contaminatus (Fallén)

1-----2-----3-----4-----5-----6ABCDEF7ABCDEF8ABCDEF9AB-D--10AB--11-----12-----

Neolygus populi (Leston)

1-----2-----3-----4-----5-----6--C-E-7A--DE-8-----9-----10-----11-----12-----

Neolygus viridis (Fallén)

1-----2-----3-----4-----5-----6--D-F7ABCDEF8ABCD-F9AB--10-----11-----12-----

Notostira elongata (Geoffroy)

1A-C--2-----3--D--4-B-DE-5ABCD-F6--CDEF7ABCDEF8ABCDEF9ABCDEF10ABCDE-11-B--12-----

Oncotylus viridiflavus (Goeze)

1-----2-----3-----4-----5-----6---F7A-CDEF8ABCDEF9-B--10-----11-----12-----

Orthocephalus coriaceus (Fabricius)

1-----2-----3-----4-----5-----6-B--EF7ABC-EF8---F9---F10-----11-----12-----

Orthocephalus saltator (Hahn)

1-----2-----3-----4-----5-----6---EF7A--D-F8AB-DEF9-----10-----11-----12-----

Orthonotus rufifrons (Fallén)

1-----2-----3-----4-----5-----6--C-E-7ABCDEF8ABC-E-9-----10-----11-----12-----

Orthops campestris (Linnaeus)

1-----2-----3-----4-----5-----6---7A---8ABC--9-----10-----11-----12-----

Orthotylus adenocarpus (Perris)

1-----2-----3-----4-----5-----6---DEF7AB-DEF8ABC-E-9-BC--10--C--11-----12-----

Orthotylus bilineatus (Fallén)

1-----2-----3-----4-----5-----6---7AB-DEF8ABC--F9AB--F10-----11-----12-----

Orthotylus concolor (Kirschbaum)

1-----2-----3-----4-----5-----6---F7AB-DEF8-BC-E-9-B-DE-10-----11-----12-----

MIRIDAE (CONTINUED)

Orthotylus ericetorum (Fallén)

1-----2-----3-----4-----5-----6-----7-BCD-F8A-CDEF9ABCD--10-----11-----12-----

Orthotylus flavinervis (Kirschbaum)

1-----2-----3-----4-----5-----6-----EF7ABC-E-8ABCDE-9-----10-----11-----12-----

Orthotylus flavosparsus (C.R. Sahlberg)

1-----2-----3-----4-----5-----6-----E-7ABCDEF8ABCDEF9A-CDE-10-----11-----12-----

Orthotylus marginalis Reuter

1-----2-----3-----4-----5-----6-BCDEF7ABCDEF8ABCDE-9AB--10-----11-----12-----

Orthotylus moncreaffi (Douglas & Scott)

1-----2-----3-----4-----5-----6-B--7--E-8--CD--9-----10A--11-----12-----

Orthotylus nassatus (Fabricius)

1-----2-----3-----4-----5-----6--D--7--CDEF8ABC-EF9AB--10A--11-----12-----

Orthotylus ochrotrichus Fieber

1-----2-----3-----4-----5-----6--D-F7-BCDEF8ABCDEF9--10-----11-----12-----

Orthotylus prasinus (Fallén)

1-----2-----3-----4-----5-----6-----E-7ABCDEF8AB--F9--10-----11-----12-----

Orthotylus tenellus (Fallén)

1-----2-----3-----4-----5-----6-----7ABCDE-8AB--9-----10-----11-----12-----

Orthotylus virescens (Douglas & Scott)

1-----2-----3-----4-----5-----6-----7ABCDEF8ABCD--9-B--10--C--11-----12-----

Orthotylus viridinervis (Kirschbaum)

1-----2-----3-----4-----5-----6--DEF7ABCDEF8AB--F9--10-----11-----12-----

Pantilius tunicatus (Fabricius)

1-----2-----3-----4-----5-----6-----E-7-----8-B--E-9ABCDEF10ABCD--11-----12-----

Parapsallus vitellinus (Scholtz)

1-----2-----3-----4-----5-----6--DEF7ABCD--8A--9-----10-----11-----12-----

Phoenicocoris obscurellus (Fallén)

1-----2-----3-----4-----5-----6-B--EF7ABCDEF8ABC-E-9A--10-----11-----12-----

Phylus coryli (Linnaeus)

1-----2-----3-----4-----5-----6--DEF7ABCDE-8ABC--9-----10-----11-----12-----

Phylus melanocephalus (Linnaeus)

1-----2-----3-----4-----5-----F6ABCDEF7ABCDEF8AB-D--9-----10-----11-----12-----

Phytocoris dimidiatus Kirschbaum

1-----2-----3-----4-----5-----6A-CDEF7ABCD-F8-BCDEF9A-CDEF10-B--11-----12-----

Phytocoris insignis Reuter

1-----2-----3-----4-----5-----6-----7--D-F8A--EF9--C--10-----11-----12-----

Phytocoris longipennis Flor

1-----2-----3-----F4-----5-----6-----7--EF8ABCDEF9ABCDE-10-----11-----12-----

Phytocoris populi (Linnaeus)

1-----2-----3-----4-----5-----6--CD-F7--DEF8ABC-EF9A-C-E-10-----11-----12-----

Phytocoris reuteri Saunders

1-----2-----3-----4-----5-----6--E-7ABCDEF8ABCDEF9ABCDEF10AB--11-----12-----

Phytocoris tiliae (Fabricius)

1-----2-----3-----4-----5-----6--C--7ABCDEF8ABCDEF9ABCDE-10ABC--11-----12-----

Phytocoris ulmi (Linnaeus)

1-----2-----3-----4-----5-----6-B--EF7ABCDEF8ABCDEF9AB--E-10-----11-----12-----

Phytocoris varipes Boheman

1-----2-----3-----4-----5-----6--E-7A-CDEF8ABCDEF9ABCDEF10ABC--11-----12-----

Pilophorus cinnamopterus (Kirschbaum)

1-----2-----3-----4-----5-----6-----7-BC--F8ABCDE-9ABC-E-10-B--11-----12-----

Pilophorus clavatus (Linnaeus)

1-----2-----3-----4-----5-----6-----7-BC-EF8A-CDEF9--DE-10-----11-----12-----

Pilophorus confusus (Kirschbaum)

1-----2-----3-----4-----5-----6-----7AB--E-8-B--9-----10-----11-----12-----

Pilophorus perplexus Douglas & Scott

1-----2-----3-----4-----5-----6-----7-BCDEF8ABC-EF9ABCD--10-B--11-----12-----

Pinalitus cervinus (Herrich-Schaeffer)

1-----2-----3-----4-----5--C-EF6--CDE-7A-CDEF8ABCDEF9-BCDE-10ABC-E-11-----12-----

MIRIDAE (CONTINUED)

Pinalitus rubricatus (Fallén)

1-----2-----3-----4-----5-----6---DEF7ABC---8ABC---9---E-10-----11-----12-----

Pinalitus viscicola (Puton)

1-----2-----3-----4-----5-----6---E-7-----8A-----9-----10-----11-----12-----

Pithanus maerkelii (Herrich-Schaeffer)

1-----2-----3-----4-----5-----F6-BCDEF7ABCDEF8ABC-EF9-----10-----11-----12-----

Plagiognathus arbustorum (Fabricius)

1-----2-----3-----4A-----5-----F6-CDEF7ABCDEF8ABCD-F9A-----10-----11-----12-----

Plagiognathus chrysanthemi (Wolff)

1-----2-----3-----4-----5-----6---DEF7ABCDEF8ABCDEF9-----10-----11-----12-----

Platycranus bicolor (Douglas & Scott)

1-----2-----3-----4-----5-----6-----7---EF8-BCDE-9-B-DE-10-C--11-----12-----

Plesiodema pinetella (Zetterstedt)

1-----2-----3-----4-----5-----6---CDEF7ABC-E-8-----9-----10-----11-----12-----

Polymerus nigrita (Fallén)

1-----2-----3-----4-----5-----6---DEF7ABCDEF8AB-DE-9-----10-----11-----12-----

Polymerus palustris (Reuter)

1-----2-----3-----4-----5-----6-----7-B-EF8ABCD-F9-----10-----11-----12-----

Polymerus unifasciatus (Fabricius)

1-----2-----3-----4-----5-----6---F7ABCDEF8ABCDEF9-----10-----11-----12-----

Psallodema fieberi (Fieber)

1-----2-----3-----4-----5-----6-----7-C-F8-----9-----10-----11-----12-----

Psallus albicinctus (Kirschbaum)

1-----2-----3-----4-----5-----6AB-DE-7-----8-----9-----10-----11-----12-----

Psallus ambiguus (Fallén)

1-----2-----3-----4-----5-----6ABCDEF7ABC-F8---E-9-----10-----11-B---12-----

Psallus assimilis Stichel

1-----2-----3-----4-----5-----6-BC-EF7A-C--8-----9-----10-----11-----12-----

Psallus falleni Reuter

1-----2-----3-----4-----5-----6---F7-BCD-F8A-C-EF9A-C--10-B---11-----12-----

Psallus flavellus Stichel

1-----2-----3-----4-----5-----6---D-7-BC--8-----9-C--10-----11-----12-----

Psallus haematodes (Gmelin)

1-----2-----3-----4-----5-----6-----7-BCDEF8ABCDEF9ABCDE-10-B---11-----12-----

Psallus lepidus Fieber

1-----2-----3-----4-----5-----6ABCDEF7ABC-EF8AB-D-F9-----10-----11-----12-----

Psallus luridus Reuter

1-----2-----3-----4-----5-----6-----7A-----8---D-9-----10-----11-----12-----

Psallus perrisi (Mulsant & Rey)

1-----2-----3-----4A-----5-----F6ABCDEF7A-C--8A-----9-----10-----11-----12-----

Psallus salicis (Kirschbaum)

1-----2-----3-----4-----5---D-6---D-7-----8ABC-F9--CD-10-----11-----12-----

Psallus variabilis (Fallén)

1-----2-----3-----4-----5-----6---DE-7AB---8-----9-----10-----11-----12-----

Psallus varians (Herrich-Schaeffer)

1-----2-----3-----4-----5---EF6ABCDEF7ABCDEF8A-C--9-B---10-----11-----12-----

Psallus wagneri Ossiannilsson

1-----2-----3-----4-----5-----6---DE-7-B---8-B-E-9-----10-----11-----12-----

Pseudoloxops coccineus (Meyer-Dür)

1-----2-----3-----4-----5-----6-----7-C-EF8ABC-EF9-BC--10-----11-----12-----

Rhabdomiris striatellus (Fabricius)

1-----2-----3-----4-----5---CD-F6ABCDEF7AB--E-8-----9-----10-----11-----12-----

Salicarus roseri (Herrich-Schaeffer)

1-----2-----3-----4-----5-----6---DEF7ABCDEF8---DE-9A-----10-----11-----12-----

Stenodema calcarata (Fallén)

1---D-2---C-E-3A---E-4A-C-EF5ABCDEF6-BCDEF7ABCDEF8ABCDEF9ABCDE10A---EF11-B-D--12-----F

Stenodema holsata (Fabricius)

1-----2-----3-----4-----5---D-6---C-E-7---E-8---F9---DE-10-----11-----12-----

MIRIDAE (CONTINUED)

Stenodema laevigata (Linnaeus)

1-B---2---F3-BCDEF4ABCD--5ABCDEF6ABCDEF7ABCDEF8ABC-EF9ABCDEF10ABCDE-11---D--12-----

Stenodema trispinosa Reuter

1-----2-----3-----4-----5-----6-----7-----F8-----F9-----10-----11---D--12-----

Stenotus binotatus (Fabricius)

1-----2-----3-----4-----5-----6---DEF7ABCDEF8ABCD--9AB---10-----11-----12-----

Sthenarus rotermundi (Scholtz)

1-----2-----3-----4-----5A---6--C-EF7AB-DEF8ABC-EF9--C--10-----11-----12-----

Strongylocoris leucocephalus (Linnaeus)

1-----2-----3-----4-----5---E-6-BCDEF7-BC--8-----9-----10-----11-----12-----

Systellonotus triguttatus (Linnaeus)

1-----2-----3-----4-----5---6-BC-EF7-B-D-F8A--E-9-----10-----11-----12-----

Teratocoris antennatus (Boheman)

1-----2-----3-----4-----5A---6-----7A---EF8---D-9-----10-----11-----12-----

Teratocoris saundersi Douglas & Scott

1-----2-----3-----4-----5-----6-----7A---8A---9-----10-----11-----12-----

Tinicephalus hortulanus (Meyer-Dür)

1-----2-----3-----4-----5-----6-B--F7-BCD--8-----9---D-10-----11-----12-----

Tupiocoris rhododendri (Dolling)

1-----2-----3-----4-----5-----6-----7-----8AB--9-----10-----11-----12-----

Tytthus pubescens (Knight)

1-----2-----3-----4-----5-----6---E-7-----8A---9---D-10-----11-----12-----

Tytthus pygmaeus (Zetterstedt)

1-----2-----3-----4-----5-----6-B--EF7-BCDEF8AB--E-9A-C--10-----11-----12-----

CERATOCOMBIDAE

Ceratocombus coleopratus (Zetterstedt)

1-----2-----3-----4-----5-----6-----7-----8-----F9---D--10A---11-----12-----

DIPSOCORIDAE

Pachycoleus waltli Fieber

1-----2-----3-----4-----5A-C--6-----7-----8-----9-----10-----11-----12-----

SALDIDAE

Chartoscirta cincta (Herrich-Schaeffer)

1-----2-----3-----4-BCDE-5A---6-B---7--CD-F8ABCDEF9ABCDEF10--C--11-----12--C--

Chartoscirta cocksii (Curtis)

1-----2-----3--C--4A---F5-B--E-6-----7-----8-B--9-----10-----11-----12-----

Chartoscirta elegantula (Fallén)

1-----2-----3-----4-----5-----6-----7-----8-----9A---10-----11-----12-----

Micracanthia marginalis (Fallén)

1-----2-----3-----4-----5-----6--C-E-7---D-8A---9-----10-----11-----12-----

Saldula opacula (Zetterstedt)

1-----2-----3-B--4-----5-----6-----7-----8-----9-----10-----11-----12-----

Saldula orthochila (Fieber)

1-----2-----3---E-4-B---5--C--6AB--EF7ABC-E-8AB---9-BCD-F10A---11-----12-----

Saldula pilosella (Thomson)

1-----2-----3-----4--DE-5-B--6-----7-----F8-----9--C-E-10-----11-----12-----

Saldula saltatoria (Linnaeus)

1-----2-----3---E-4-BCDEF5AB--F6A-C--F7A--DEF8-B--E-9--CDE-10A-CDEF11---E-12-----

MESOVELIIDAE

Mesovelia furcata Mulsant & Rey

1-----2-----3-----4-----5---E-6--C--7A---F8AB--EF9ABCDE-10A-C--11-----12-----

HEBRIDAE

Hebrus pusillus (Fallén)

1-----2-----3-----4---F5AB--6-----7-----8-----9-----10-----11-----12-----

HEBRIDAE (CONTINUED)

Hebrus ruficeps Thomson

1-----2-----3--C--F4--C-E-5-B--E-6-BC--F7-----8---E-9ABCD--10-B---11-----12-----

HYDROMETRIDAE

Hydrometra stagnorum (Linnaeus)

1---E-2-----3-----4---DEF5ABC-EF6ABC---7---DE-8A-C--F9ABC-E-10-B--EF11-----F12-----F

VELIIDAE

Microvelia pygmaea (Dufour)

1-----2-----3-----4-----5-----6-B---7-----8-----9-----10-----11-----12-----

Microvelia reticulata (Burmeister)

1-----2-----3-----4A-CD--5AB--F6-----7-B--F8A-C--F9A--DEF10-----11-----12--C---

Velia caprai Tamanini

1-----2---D--3---DE-4--CDEF5AB-DE-6A-C--F7--C--8A--E-9--C-E-10AB---11-----12-----

Velia saulii Tamanini

1-----2-----3-----4--C--F5-----6-----7-----8-----9-----10A---11-----12-----

GERRIDAE

Aquarius najas (De Geer)

1-----2-----3--C---4---D-5-B-D--6A-C-E-7-----8-----9A-C--10-B--EF11-----12-----

Aquarius paludum (Fabricius)

1-----2-----3-----4-----5--C-E-6-----7-BC--F8-----9-B--E-10A---11-----12-----

Gerris argentatus Schummel

1-----2-----3-----4-----5--C--6--C--7--C--F8A---9AB-DEF10A---11-----12--C---

Gerris costae (Herrich-Schaeffer)

1-----2-----3-----4-----5-----6-----7-----8---E-9-----10-----11-----12-----

Gerris gibbifer Schummel

1-----2-----3---D-F4ABCDEF5ABC---6-----7--CD--8---EF9A---10-B-D--11---D--12-----

Gerris lacustris (Linnaeus)

1A-----2-----F3---D--4ABCDEF5ABCDEF6A--DE-7A-CDEF8ABCDEF9AB-DEF10ABCDEF11-----12-----

Gerris lateralis Schummel

1-----2-----3-----4-----5-----6--D--7-----8---F9-----10-----11-----12-----

Gerris odontogaster (Zetterstedt)

1A-----2-----3---DEF4ABCDEF5AB--EF6A--D-F7-BC--F8A-C-EF9A--DEF10ABC-EF11A---12-----

Gerris thoracicus Schummel

1-----2-----3-----F4ABCDEF5ABCDE-6A--DE-7--CDE-8AB-D-F9A-CDE-10-----11-----12-----

Limnopus rufoscutellatus (Latreille)

1-----2-----3-----4A-----5-----6-----7-----8-----9-----10-----11-----12-----

NEPIDAE

Nepa cinerea Linnaeus

1-----2-----3-BC-E-4-B-DEF5ABCDEF6-B-D-F7AB--E-8--C-EF9ABCDEF10ABCD--11---D--12-B---

Ranatra linearis (Linnaeus)

1-B---2-----F3--C-E-4A--DE-5---DE-6ABCD-F7AB---8---D--9ABCD--10-----11-B---12--D--

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus)

1-----F2---E-3ABC-EF4ABCDEF5AB-DE-6AB---7--C-EF8A---E-9ABCDEF10ABCDEF11--C-E-12---D--

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius)

1-----2-----3-----4-----5-----6-----7-----8--C--9---E-10-----11-----12-----

NOTONECTIDAE

Notonecta glauca Linnaeus

1---D-F2---E-3-B-DEF4ABCDEF5ABCDEF6A-CD--7-B-DEF8ABCDEF9ABCDEF10ABCDEF11-BCD-F12-BCD-F

Notonecta maculata Fabricius

1-----2---DE-3--CDE-4-B-DE-5-B--EF6-----7-BCD--8ABCDEF9-BCDEF10ABCDEF11A-C--F12-B-D--

NOTONECTIDAE (CONTINUED)

Notonecta obliqua Thunberg

1-BC--F2---DE-3-BCDEF4-BCDEF5-B-D-F6A----F7-BCD--8AB-DE-9ABCDEF10ABCDEF11A-C-E-12-B-D-F

Notonecta viridis Delcourt

1-B--EF2A---E-3-B--EF4AB-DEF5AB----6---D--7AB---F8ABCDE-9AB-DE-10ABCD-F11-BC-EF12--CD--

PLEIDAE

Plea minutissima Leach

1-----2--C---3-BC--F4AB-DEF5A--DEF6A-----7A---E-8-BC-EF9---DEF10-----11-----12-----

CORIXIDAE

Arctocorixa germari (Fieber)

1-----2A-----3A--DE-4-B---F5-----6-----F7-B---8---DEF9-B--EF10---DE-11A-----12---D--

Callicorixa praeusta (Fieber)

1-----F2---E-3-BCDEF4ABCD-F5-BC-EF6---DEF7AB-D-F8ABCDE-9--CDEF10ABCDEF11AB--EF12A-C---

Corixa affinis Leach

1-----2-----3-----4A-----5-----6A-----7-----F8-----9-----F10-----11-----12-----

Corixa dentipes Thomson

1-----2-----3---E-4A---F5-B---6-----7-----F8-----F9-BCD-F10-B--EF11---EF12-----

Corixa panzeri Fieber

1-----2---E-3--C---4ABC--5-----6-----7---E-8---DE-9A---F10---DE-11-----12--C---

Corixa punctata (Illiger)

1-B-DEF2---E-3-BCDEF4ABCDEF5ABCD--6--C--F7ABCD-F8ABCDEF9ABCDEF10ABCDEF11AB--EF12-BCDE-

Cymatia bondsdorffii (C.R. Sahlberg)

1-----2---E-3---DE-4AB-DEF5-B-DEF6-B-D--7A---E-8-----9-B---10-BCD-F11-----12---D-F

Cymatia coleoptrata (Fabricius)

1---DE-2-----3--C-EF4-BCDEF5AB-DEF6AB---7AB-D--8---DEF9--CD-F10-BCDE-11A---F12A-CD-F

Hesperocorixa castanea (Thomson)

1AB---2---DE-3ABC-E-4ABCD--5AB---F6-B---7--CD--8A---E-9A--D-F10A-C---11-----12AB---

Hesperocorixa linnaei (Fieber)

1--D-F2--C-E-3-BCDEF4ABCDEF5AB-DE-6AB---7A--D-F8ABC-EF9---DEF10ABC-EF11AB--EF12--CD-F

Hesperocorixa moesta (Fieber)

1-BCDE-2--C-E-3ABCDEF4-BCDEF5AB-DE-6-B---F7---DEF8AB--E-9ABCDEF10ABCDEF11--C---12ABCD--

Hesperocorixa sahlbergi (Fieber)

1-B-D-F2--CDEF3ABCDEF4ABCDEF5ABCDEF6-BCD-F7ABCDEF8ABCD-F9-BCDEF10ABCDEF11ABC-EF12-BCDE-

Micronecta minutissima (Linnaeus)

1-----2-----3-----4-----5-----6A--D--7-----8A---F9-----10-----11-----12-----

Micronecta poweri (Douglas & Scott)

1-----2--C---3-----4--D--5A---6A--DEF7A--D--8AB-DE-9-----10-----11-----12-----

Micronecta scholtzi (Fieber)

1-----2-----3-----4--D--5-----6A---7AB-D-F8A-C-EF9---E-10-----11-----12-----

Paracorixa concinna (Fieber)

1-----2-----3A--DE-4ABCD-F5A-C---6---DE-7AB-D-F8ABC-EF9---EF10A-CDE-11A-----12-----

Sigara distincta (Fieber)

1--D-F2---E-3-B-DE-4A-CDEF5ABCDE-6AB-D-F7A--DEF8ABCDEF9---DEF10A-CDEF11A-C-EF12--CD--

Sigara dorsalis (Leach)

1-BCDEF2--C-E-3-B-DEF4ABCDEF5ABCDEF6A--DEF7ABCDEF8ABCDEF9AB-DEF10ABCDEF11AB--EF12ABCD--

Sigara falleni (Fieber)

1-BCD-F2-BC-E-3-BCDEF4ABCDEF5ABCDEF6-BCDEF7A-CDEF8ABCDEF9-B-DEF10ABCDEF11ABC-E-12A-CD-F

Sigara fossarum (Leach)

1--D-F2--C-E-3-BCDEF4-BCDEF5AB-DEF6AB---7AB---F8ABCDEF9---DEF10A-CDEF11A-C--F12--CD--

Sigara lateralis (Leach)

1---E-2---DE-3-BCDEF4ABCD-F5ABCDEF6AB-DEF7AB-DEF8ABCDEF9--CDEF10ABC-EF11-BC-EF12-BCD--

Sigara limitata (Fieber)

1-B-D-F2---E-3-BCDEF4ABCDEF5ABC-E-6-B---7---EF8-B--EF9AB--E-10-BCDEF11A-C-E-12-BCD--

Sigara nigrolineata (Fieber)

1-BC--F2-B-E-3-BCDEF4ABCDEF5ABC-EF6-B--E-7-BCDEF8ABC-EF9A-CDEF10ABCDEF11A-C--F12-BCDE-

Sigara scotti (Douglas & Scott)

1-----2-----3AB---4---F5-B---6---E-7--D--8A---EF9---E-10---EF11--C-E-12--C---

CORIXIDAE (CONTINUED)

Sigara selecta (Fieber)

1-----2-----3---E-4---E-5-----6-----7-----8-----9-----10-----11-----12-----

Sigara semistriata (Fieber)

1-----2-----3-----4-----5-----6-----7-----8-----F9---D--10--C-EF11-----12-----

Sigara stagnalis (Leach)

1-----2-----3-----4-----5-----6-----7-----8-----9-----10-----11-----F12-----

Sigara venusta (Douglas & Scott)

1-----2-----3---E-4-----5-----6-----7-----8---E-9-----10-----11-----12-----

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR WILTSHIRE INTO VICE-COUNTY LISTS FOR VC7 AND VC8

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Introduction

The list of Hemiptera-Heteroptera for Wiltshire in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian North Wiltshire (VC7) and Watsonian South Wiltshire (VC8).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013b, 2014a, 2015, 2016a, 2016b, 2018a & 2018b). The resulting vice-county lists include 234 records, compared with 262 for the original Wiltshire list. The list for Wiltshire as a whole has shortened by 71, the decrease arising from 13 species added to the list and 84 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Wiltshire are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from the Reports of the Marlborough Natural History Society, numbers 48-54 (1899-1905).

The divided records

ARADIDAE

<i>Aneurus laevis</i> (Fabricius) [DELETED]	-	-
<i>Aradus depressus</i> (Fabricius) [DELETED]	-	-

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus) [DELETED]	-	-
<i>Cyphostethus tristriatus</i> (Fabricius)	VC7	-
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC7	-
<i>Elasmucha grisea</i> (Linnaeus) [DELETED]	-	-

CYDNIDAE

<i>Canthophorus impressus</i> (Horváth)	VC7 (3)	VC8 (3)
<i>Legnotus limbosus</i> (Geoffroy)	VC7	-
<i>Sehirus luctuosus</i> Mulsant & Rey	-	VC8 (23)
<i>Tritomegas bicolor</i> (Linnaeus)	VC7	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	-	VC8 (23)
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SCUTELLERIDAE

<i>Eurygaster testudinaria</i> (Geoffroy) [NEW]	-	VC8 (21)
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PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	-	VC8 (2)
<i>Chlorochroa juniperina</i> (Linnaeus)	-	VC8 (4)

PENTATOMIDAE (*CONTINUED*)

<i>Dolycoris baccarum</i> (Linnaeus)	VC7	-
<i>Eurydema oleracea</i> (Linnaeus) [NEW]	-	VC8 (21)
<i>Eysarcoris venustissimus</i> (Schrank)	VC7 (24)	VC8 (5)
<i>Neottiglossa pusilla</i> (Gmelin)	-	VC8 (23)
<i>Palomena prasina</i> (Linnaeus)	-	VC8 (23)
<i>Pentatoma rufipes</i> (Linnaeus)	VC7	VC8
<i>Picromerus bidens</i> (Linnaeus)	-	VC8 (23)
<i>Piezodorus lituratus</i> (Fabricius) [DELETED]	-	-
<i>Podops inunctus</i> (Fabricius)	VC7	-
<i>Troilus luridus</i> (Fabricius) [DELETED]	-	-
<i>Zicrona caerulea</i> (Linnaeus)	VC7	VC8

COREIDAE

<i>Coreus marginatus</i> (Linnaeus)	-	VC8 (23)
<i>Coriomeris denticulatus</i> (Scopoli)	VC7	-

RHOPALIDAE

<i>Corizus hyoscyami</i> (Linnaeus)	VC7 (25)	-
<i>Liorhyssus hyalinus</i> (Fabricius)	-	VC8 (6)
<i>Myrmus miriformis</i> (Fallén)	VC7	-
<i>Rhopalus maculatus</i> (Fieber)	-	VC8 (23)
<i>Rhopalus parumpunctatus</i> Schilling	-	VC8 (23)
<i>Rhopalus rufus</i> Schilling	-	VC8 (23)
<i>Rhopalus subrufus</i> (Gmelin)	-	VC8 (7)

STENOCEPHALIDAE

<i>Dicranocephalus medius</i> (Mulsant & Rey)	-	VC8 (23)
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LYGAEIDAE

<i>Aphanus rolandri</i> (Linnaeus)	-	VC8 (18)
<i>Cymus claviculus</i> (Fallén)	VC7 (26)	VC8 (8)
<i>Cymus glandicolor</i> Hahn	VC7	VC8
<i>Cymus melanocephalus</i> Fieber	-	VC8 (1)
<i>Drymus brunneus</i> (R.F. Sahlberg) [DELETED]	-	-
<i>Drymus ryeii</i> Douglas & Scott [DELETED]	-	-
<i>Drymus sylvaticus</i> (Fabricius)	VC7	VC8
<i>Gastrodes abietum</i> Bergroth [DELETED]	-	-
<i>Gastrodes grossipes</i> (De Geer)	VC7	VC8
<i>Heterogaster artemisiae</i> Schilling	-	VC8 (18)
<i>Heterogaster urticae</i> (Fabricius)	-	VC8 (1)
<i>Ischnodemus sabuleti</i> (Fallén) [NEW]	-	VC8 (21)
<i>Kleidocerys ericae</i> (Horváth)	-	VC8 (23)
<i>Kleidocerys resedae</i> (Panzer)	-	VC8 (23)
<i>Lamprolax picea</i> (Flor) [DELETED]	-	-
<i>Lygaeus simulans</i> Deckert [DELETED]	-	-
<i>Macrodera microptera</i> (Curtis)	-	VC8 (23)
<i>Megalonotus antennatus</i> (Schilling)	-	VC8 (23)
<i>Peritrechus geniculatus</i> (Hahn)	-	VC8
<i>Peritrechus lundii</i> (Gmelin) [DELETED]	-	-
<i>Plinthisus brevipennis</i> (Latreille) [DELETED]	-	-
<i>Scolopostethus affinis</i> (Schilling) [DELETED]	-	-
<i>Scolopostethus decoratus</i> (Hahn)	-	VC8 (23)
<i>Scolopostethus grandis</i> Horváth	-	VC8 (23)
<i>Scolopostethus thomsoni</i> Reuter	VC7	VC8

LYGAEIDAE (*CONTINUED*)

<i>Stygnocoris fuliginus</i> (Geoffroy)	-	VC8 (23)
<i>Stygnocoris rusticus</i> (Fallén)	VC7	-
<i>Stygnocoris sabulosus</i> (Schilling) [DELETED]	-	-
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	-	VC8
<i>Trapezonotus desertus</i> Seidenstücker [NEW]	-	VC8 (21)
<i>Trapezonotus dispar</i> Stål [NEW]	-	VC8 (23)
<i>Tropistethus holosericus</i> (Scholtz)	-	VC8 (23)

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius)	VC7 (26)	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	-	VC8 (23)
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	-	VC8 (1)
<i>Neides tipularius</i> (Linnaeus)	-	VC8

PIESMATIDAE

<i>Piesma maculatum</i> (Laporte) [DELETED]	-	-
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TINGIDAE

<i>Acalypta carinata</i> (Panzer) [NEW]	VC7 (12)	-
<i>Acalypta parvula</i> (Fallén) [DELETED]	-	-
<i>Agramma laetum</i> (Fallén) [DELETED]	-	-
<i>Derephysia foliacea</i> (Fallén) [DELETED]	-	-
<i>Dictyla convergens</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Dictyonota strichnocera</i> Fieber [DELETED]	-	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Stephanitis rhododendri</i> Horváth [DELETED]	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Tingis cardui</i> (Linnaeus)	VC7	VC8

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer) [DELETED]	-	-
<i>Empicoris vagabundus</i> (Linnaeus)	-	VC8
<i>Reduvius personatus</i> (Linnaeus)	VC7	-

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	-	VC8 (9)
<i>Himacerus boops</i> (Schjødt)	-	VC8 (20)
<i>Himacerus major</i> (A. Costa)	VC7	-
<i>Himacerus mirmicoides</i> (O. Costa)	-	VC8
<i>Nabis fesus</i> (Linnaeus)	VC7	-
<i>Nabis flavomarginatus</i> Scholtz [DELETED]	-	-
<i>Nabis limbatus</i> Dahlbom	VC7	-
<i>Nabis lineatus</i> Dahlbom	VC7	-
<i>Nabis rugosus</i> (Linnaeus)	VC7	VC8

ANTHOCORIDAE

<i>Acompocoris pygmaeus</i> (Fallén) [DELETED]	-	-
<i>Anthocoris butleri</i> Le Quesne [DELETED]	-	-
<i>Anthocoris confusus</i> Reuter [DELETED]	-	-
<i>Anthocoris gallarumulmi</i> (De Geer)	VC7 (26)	-
<i>Anthocoris nemoralis</i> (Fabricius)	VC7	-
<i>Anthocoris nemorum</i> (Linnaeus)	VC7	-
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	-	VC8 (27)
<i>Elatophilus nigricornis</i> (Zetterstedt)	-	VC8 (23)

ANTHOCORIDAE (CONTINUED)

<i>Lyctocoris campestris</i> (Fabricius)	VC7	-
<i>Orius laevigatus</i> (Fieber) [NEW]	-	VC8 (21)
<i>Orius majusculus</i> (Reuter) [DELETED]	-	-
<i>Orius niger</i> (Wolff)	VC7 (24)	-
<i>Temnostethus gracilis</i> Horváth	-	VC8 (27)
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Xylocoris cursitans</i> (Fallén) [DELETED]	-	-
<i>Xylocoris galactinus</i> (Fieber)	-	VC8 (23)

CIMICIDAE

<i>Cimex lectularius</i> Linnaeus	VC7	VC8
<i>Oeciacus hirundinis</i> (Lamarck)	-	VC8 (23)

MICROPHYSIDAE

<i>Loricula elegantula</i> (Baerensprung)	VC7 (10)	-
<i>Loricula pselaphiformis</i> Curtis	VC7 (10)	-

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	-	VC8 (1)
<i>Adelphocoris lineolatus</i> (Goeze)	-	VC8 (23)
<i>Amblytylus nasutus</i> (Kirschbaum) [DELETED]	-	-
<i>Apolygus lucorum</i> (Meyer-Dür)	VC7	-
<i>Apolygus spinolae</i> (Meyer-Dür) [DELETED]	-	-
<i>Asciodema obsoleta</i> (Fieber) [DELETED]	-	-
<i>Atractotomus magnicornis</i> (Fallén)	-	VC8
<i>Atractotomus mali</i> (Meyer-Dür)	-	VC8 (1)
<i>Blepharidopterus angulatus</i> (Fallén)	VC7	-
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	VC7	-
<i>Calocoris alpestris</i> (Meyer-Dür) [NEW]	VC7 (19)	-
<i>Calocoris roseomaculatus</i> (De Geer) [DELETED]	-	-
<i>Camptozygum aequale</i> (Villers) [DELETED]	-	-
<i>Campyloneura virgula</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Capsodes gothicus</i> (Linnaeus)	-	VC8
<i>Capsus ater</i> (Linnaeus)	VC7	VC8
<i>Charagochilus gyllenhalii</i> (Fallén) [DELETED]	-	-
<i>Chlamydatum evanescens</i> (Boheman)	VC7 (31)	-
<i>Chlamydatum pullus</i> (Reuter) [DELETED]	-	-
<i>Closterotomus fulvomaculatus</i> (De Geer)	VC7 (24)	VC8 (23)
<i>Closterotomus norwegicus</i> (Gmelin)	VC7	-
<i>Compsidolon salicellum</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Conostethus roseus</i> (Fallén) [DELETED]	-	-
<i>Cyllecoris histrionius</i> (Linnaeus)	VC7	VC8
<i>Cyrtorhinus caricis</i> (Fallén) [DELETED]	-	-
<i>Deraeocoris flavilinea</i> (A. Costa)	VC7 (17)	-
<i>Deraeocoris lutescens</i> (Schilling) [DELETED]	-	-
<i>Deraeocoris olivaceus</i> (Fabricius)	-	VC8 (28)
<i>Deraeocoris ruber</i> (Linnaeus)	VC7	VC8
<i>Deraeocoris scutellaris</i> (Fabricius)	-	VC8 (1)
<i>Dichrooscytus rufipennis</i> (Fallén) [DELETED]	-	-
<i>Dicyphus constrictus</i> (Boheman) [DELETED]	-	-
<i>Dicyphus epilobii</i> Reuter	VC7	-
<i>Dicyphus errans</i> (Wolff)	-	VC8
<i>Dicyphus globulifer</i> (Fallén) [DELETED]	-	-
<i>Dicyphus pallicornis</i> (Fieber) [NEW]	-	VC8 (21)

MIRIDAE (CONTINUED)

<i>Dicyphus stachydis</i> J. Sahlberg [DELETED]	-	-
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	VC7	VC8
<i>Globiceps flavomaculatus</i> (Fabricius) [DELETED]	-	-
<i>Grypocoris stysi</i> (Wagner)	VC7	VC8
<i>Hallodapus rufescens</i> (Burmeister)	-	VC8 (20)
<i>Halticus luteicollis</i> (Panzer)	-	VC8 (23)
<i>Harpocera thoracica</i> (Fallén)	VC7	VC8
<i>Heterocordylus genistae</i> (Scopoli) [DELETED]	-	-
<i>Heterocordylus tibialis</i> (Hahn)	-	VC8 (23)
<i>Heterotoma planicornis</i> (Pallas)	VC7	VC8
<i>Hypseloecus visci</i> (Puton) [NEW]	-	VC8 (21)
<i>Leptopterna dolabrata</i> (Linnaeus)	VC7	VC8
<i>Leptopterna ferrugata</i> (Fallén) [DELETED]	-	-
<i>Liocoris tripustulatus</i> (Fabricius)	VC7	VC8
<i>Lopus decolor</i> (Fallén)	VC7 (29)	-
<i>Lygocoris pabulinus</i> (Linnaeus)	VC7	-
<i>Lygocoris rugicollis</i> (Fallén)	-	VC8
<i>Lygus rugulipennis</i> Poppius	-	VC8 (11)
<i>Macrolophus rubi</i> Woodroffe [NEW]	VC7 (12)	-
<i>Macrolophus pygmaeus</i> (Rambur)	VC7 (24)	-
<i>Macrotylus paykullii</i> (Fallén) [DELETED]	-	-
<i>Macrotylus solitarius</i> (Meyer-Dür) [DELETED]	-	-
<i>Malacocoris chlorizans</i> (Panzer)	-	VC8
<i>Mecomma ambulans</i> (Fallén) [DELETED]	-	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	-	VC8 (23)
<i>Megaloceroea recticornis</i> (Geoffroy)	-	VC8 (23)
<i>Megalocoleus molliculus</i> (Fallén) [DELETED]	-	-
<i>Miris striatus</i> (Linnaeus)	VC7	VC8
<i>Monalocoris filicis</i> (Linnaeus) [DELETED]	-	-
<i>Neolygus contaminatus</i> (Fallén) [DELETED]	-	-
<i>Neolygus viridis</i> (Fallén) [DELETED]	-	-
<i>Notostira elongata</i> (Geoffroy)	VC7	-
<i>Notostira erratica</i> (Linnaeus)	VC7 (30)	-
<i>Oncotylus viridiflavus</i> (Goeze) [NEW]	-	VC8 (21)
<i>Orthocephalus coriaceus</i> (Fabricius)	-	VC8 (27)
<i>Orthocephalus saltator</i> (Hahn)	-	VC8 (23)
<i>Orthonotus rufifrons</i> (Fallén) [DELETED]	-	-
<i>Orthops campestris</i> (Linnaeus) [NEW]	-	VC8 (21)
<i>Orthotylus concolor</i> (Kirschbaum)	VC7	-
<i>Orthotylus ericetorum</i> (Fallén) [DELETED]	-	-
<i>Orthotylus marginalis</i> Reuter	VC7	VC8
<i>Orthotylus nassatus</i> (Fabricius) [DELETED]	-	-
<i>Orthotylus ochrotrichus</i> Fieber [DELETED]	-	-
<i>Orthotylus prasinus</i> (Fallén)	-	VC8 (27)
<i>Orthotylus virescens</i> (Douglas & Scott)	VC7	-
<i>Pantilius tunicatus</i> (Fabricius)	VC7	-
<i>Phoenicocoris obscurellus</i> (Fallén)	-	VC8
<i>Phylus coryli</i> (Linnaeus)	-	VC8 (23)
<i>Phylus melanocephalus</i> (Linnaeus)	-	VC8
<i>Phytocoris dimidiatus</i> Kirschbaum	-	VC8
<i>Phytocoris longipennis</i> Flor [DELETED]	-	-
<i>Phytocoris populi</i> (Linnaeus)	VC7	-
<i>Phytocoris reuteri</i> Saunders [DELETED]	-	-
<i>Phytocoris tiliae</i> (Fabricius)	VC7	VC8

MIRIDAE (CONTINUED)

<i>Phytocoris ulmi</i> (Linnaeus)	VC7	VC8
<i>Phytocoris varipes</i> Boheman [DELETED]	-	-
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	-	VC8 (23)
<i>Pilophorus perplexus</i> Douglas & Scott	-	VC8 (23)
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC7	-
<i>Pinalitus rubricatus</i> (Fallén) [DELETED]	-	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Plagiognathus arbustorum</i> (Fabricius)	VC7	-
<i>Plagiognathus chrysanthemi</i> (Wolff)	-	VC8
<i>Platycranus bicolor</i> (Douglas & Scott) [DELETED]	-	-
<i>Polymerus nigrita</i> (Fallén) [DELETED]	-	-
<i>Polymerus unifasciatus</i> (Fabricius) [DELETED]	-	-
<i>Psallus albicinctus</i> (Kirschbaum)	VC7 (13)	-
<i>Psallus ambiguus</i> (Fallén)	VC7	-
<i>Psallus flavellus</i> Stichel [DELETED]	-	-
<i>Psallus haematodes</i> (Gmelin)	VC7	-
<i>Psallus lepidus</i> Fieber [DELETED]	-	-
<i>Psallus luridus</i> Reuter	VC7 (14)	VC8 (27)
<i>Psallus salicis</i> (Kirschbaum)	VC7	VC8
<i>Psallus varians</i> (Herrich-Schaeffer)	VC7	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür) [DELETED]	-	-
<i>Rhabdomiris striatellus</i> (Fabricius)	VC7	-
<i>Salicarus roseri</i> (Herrich-Schaeffer)	VC7	-
<i>Stenodema calcarata</i> (Fallén)	VC7	VC8 (15)
<i>Stenodema holsata</i> (Fabricius)	VC7	-
<i>Stenodema laevigata</i> (Linnaeus)	VC7	-
<i>Stenotus binotatus</i> (Fabricius)	VC7	-
<i>Strongylocoris leucocephalus</i> (Linnaeus) [DELETED]	-	-
<i>Strongylocoris luridus</i> (Fallén) [DELETED]	-	-
<i>Tinicephalus hortulanus</i> (Meyer-Dür) [DELETED]	-	-

SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC7	-
<i>Saldula orthochila</i> (Fieber)	VC7 (24)	-
<i>Saldula saltatoria</i> (Linnaeus)	VC7	-

MESOVELIIDAE

<i>Mesovelvia furcata</i> Mulsant & Rey [DELETED]	-	-
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HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus)	VC7 (22)	VC8 (22)
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VELIIDAE

<i>Microvelia reticulata</i> (Burmeister)	VC7 (22)	VC8 (22)
<i>Velia caprai</i> Tamanini	-	VC8 (22)

GERRIDAE

<i>Aquarius najas</i> (De Geer)	VC7	-
<i>Gerris lacustris</i> (Linnaeus)	VC7 (22)	VC8 (22)
<i>Gerris lateralis</i> Schummel	-	VC8 (23)
<i>Gerris odontogaster</i> (Zetterstedt)	VC7 (22)	-
<i>Gerris thoracicus</i> Schummel	VC7 (22)	-

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	VC7 (22)	-
<i>Ranatra linearis</i> (Linnaeus)	VC7 (22)	VC8 (22)

NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	VC7 (22)	-
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APHELOCHEIRIDAE

<i>Aphelocheirus aestivalis</i> (Fabricius)	VC7 (22)	VC8 (22)
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	VC7 (22)	VC8 (22)
<i>Notonecta maculata</i> Fabricius	VC7 (22)	-
<i>Notonecta obliqua</i> Thunberg [DELETED]	-	-
<i>Notonecta viridis</i> Delcourt	VC7 (22)	-

PLEIDAE

<i>Plea minutissima</i> Leach	VC7 (22)	VC8 (22)
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CORIXIDAE

<i>Arctocorixa germari</i> (Fieber) [DELETED]	-	-
<i>Callicorixa praeusta</i> (Fieber)	VC7 (22)	VC8 (22)
<i>Corixa dentipes</i> Thomson	VC7 (22)	-
<i>Corixa panzeri</i> Fieber	-	VC8 (23)
<i>Corixa punctata</i> (Illiger)	VC7 (22)	VC8 (22)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg) [DELETED]	-	-
<i>Cymatia coleoptrata</i> (Fabricius)	VC7 (16)	VC8 (22)
<i>Hesperocorixa castanea</i> (Thomson)	-	VC8 (23)
<i>Hesperocorixa linnaei</i> (Fieber) [DELETED]	-	-
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC7 (22)	VC8 (22)
<i>Micronecta minutissima</i> (Linnaeus) [DELETED]	-	-
<i>Micronecta poweri</i> (Douglas & Scott)	VC7 (22)	-
<i>Paracorixa concinna</i> (Fieber)	-	VC8 (23)
<i>Sigara distincta</i> (Fieber)	-	VC8 (22)
<i>Sigara dorsalis</i> (Leach)	VC7 (22)	VC8 (22)
<i>Sigara falleni</i> (Fieber)	VC7 (22)	VC8 (22)
<i>Sigara fossarum</i> (Leach) [DELETED]	-	-
<i>Sigara lateralis</i> (Leach)	-	VC8 (23)
<i>Sigara limitata</i> (Fieber) [DELETED]	-	-
<i>Sigara nigrolineata</i> (Fieber)	VC7 (22)	VC8 (22)

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Andrewes (1949)	(17) Dickson (2004)
(2) Ryle (1951)	(18) Alexander (2005)
(3) Covey (2012)	(19) Alexander (2015)
(4) Stokes (1947a)	(20) Hutchinson (1921)
(5) Stokes (1947b)	(21) Ryan (2016c)
(6) Judd (2011)	(22) Huxley (2003)
(7) Stokes (1956)	(23) Stokes (1952)
(8) Morris (1971)	(24) Allen (1967)
(9) Leston (1951a)	(25) Whitehead (2008)
(10) Allen (1971)	(26) Massee (1962)
(11) Leston (1951b)	(27) Woodroffe (1960)
(12) Ryan (2014b)	(28) Dickson (2012)
(13) Ryan (2013c)	(29) Ryle (1960)
(14) Ryan (2013a)	(30) Woodroffe (1977)
(15) Stokes (1949)	(31) Ryan (2013d)
(16) Lansbury (1956)	

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SPECIES ACCOUNTS FOR THE HEMIPTERA-HETEROPTERA REPORTED AS NEW TO THE BRITISH ISLES SINCE SOUTHWOOD & LESTON (1959): 2008 TO 2014

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Introduction

This is the sixth instalment of species accounts which expand upon the Addendum to Southwood & Leston (1959) (Ryan, 2012a & 2013a). The previous instalments (Ryan, 2015e, 2016a, 2016b, 2017a & 2017b) covered the species announced as new to the British Isles in the period 1959 to 2007, which is here extended by another seven years to 2014. As before, the species accounts are based upon details published in the national entomological literature up to the present time.

The numbering of the species accounts follows that of Ryan (2012a), which places them within the taxonomic sequence of Southwood & Leston (1959). Details of identification are given, but figures from published articles are not reproduced. A full set of keys for the land bugs is provided by Nau (2012) and Kirby (2015). Images for the bugs may be found at the British Bugs website (www.britishbugs.org.uk) and elsewhere on the internet, such as Flickr (www.flickr.com). County distribution maps for the new species are given in Figure 1. References are not cited within the species accounts, in order to avoid cluttering the prose. The evidence base for the accounts is instead given in an annotated bibliography.

Species accounts

075E *Nysius huttoni* F.B. White (Lygaeidae)

This seedbug was first found in the British Isles by N. Cuming on 17 September 2007 at a sparsely vegetated sandy area in North Warren RSPB Reserve on the Suffolk coast. It has since been recorded from the counties of Essex, Hertfordshire, Kent, Sussex, Surrey, Yorkshire, Cambridgeshire, Derbyshire and Norfolk, adults occurring in the months of May, June, July, August and September. Nymphs have been recorded in May. Where the habitat is stated, the bug has been taken chiefly from sparsely vegetated ground, on sand or gravel, on the coast, in a quarry or sandpit and on brownfield land.

The bug can be separated from its British congeners by the presence of conspicuous long, curved pale hairs on the wings, and its small size.

299A *Dicyphus escalerae* Lindberg (Miridae)

This plant bug was first found in the British Isles by P. Kirby on ruderal vegetation growing from a mound of spoil at Battersea Power Station, London (Surrey) on 13 May 2008. It has since been recorded from the counties of Leicestershire, Devon, Caernarvonshire, Worcestershire, Derbyshire, Warwickshire, Oxfordshire, Berkshire and Gloucestershire, adults occurring in the months of July, August, September, October, November and December. Where stated, the bugs were found on snapdragon, *Antirrhinum*, in urban areas. Nymphs have been recorded in October. The brachypterous form of the bug has been recorded, in both the male and female.

The bug may be confused with the more recent addition *Dicyphus tamaninii* Wagner, but can be separated by examination of the male genitalia.

130F *Metopoplax fuscinervis* Stål (Lygaeidae)

This groundbug was first found in the British Isles by P. Harvey among specimens of the closely related *Metopoplax ditomoides* (A. Costa) taken from West Thurrock Marshes, Essex in 2005. It has since been found in Hampshire and Surrey.

The bug is distinct from its British congener in having the thorax bicoloured, black or very dark brown at the front and cream to pale brown at the rear, instead of uniform black. However, intermediate forms exist.

344A *Orthotylus caprai* Wagner (Miridae)

This plant bug was first found in the British Isles by R. P. Ryan beating Wellingtonia in University Parks, Oxford, Oxfordshire on 3 August 2006. It has since been recorded from the counties of Essex, Berkshire and Buckinghamshire, adults occurring in the months of July, August and September. Nymphs have been recorded in July. The bug has also been found on Leyland Cypress, Monterey Cypress and Smooth Arizona Cypress.

The bug is very similar to the more recent addition *Orthotylus junipericola* Linnavuori, but can be separated by examination of the male genitalia.

050A *Leptoglossus occidentalis* Heidemann (Coreidae)

This squashbug was first found in the British Isles by B. Ford at Weymouth College, Dorset in January 2007. Since then, there have been many records at light traps along the south coast of England, together with a number of inland records, extending as far west as the counties of Cornwall, Wexford and Down, and as far north as Durham and Cumbria. Almost all records are for adults taken at light or found in buildings, in the months of August, September, October and November. There is also a record for an adult in a Gloucestershire garden in June, a record of a nymph on a house in the Isle of Wight in October; and a record of an adult beaten from Norway Spruce in October in Berkshire. No breeding populations have yet been reported.

The bug is distinctive and is unlikely to be confused with any other British species.

094A *Rhyparochromus vulgaris* (Schilling) (Lygaeidae)

This groundbug was first found in the British Isles by N. Harvey at Rainham Marshes, Essex, reported by B. Nau in 2010. It has since been recorded at several sites in Middlesex and has been added to the lists for Surrey and Kent, adults occurring in the months of July, August and September. The insect has been found under a log and under willow bark.

The bug is very similar to *Rhyparochromus pini* (Linnaeus), but the lateral edges of the pronotum are narrowly pale along their entire length in this species, and not in *R. vulgaris*. Also, the membrane of *R. vulgaris* has a clear apical mark.

237A *Conostethus venustus* (Fieber) (Miridae)

This plant bug was first found in the British Isles by J. Flanagan sweeping a flower-rich area of Centenary Riverside Nature Park, Rotherham, Yorkshire on 31 May 2010. It has since been recorded from the counties of Nottinghamshire, Lincolnshire, Durham and Derbyshire, adults occurring in the months of June, July, August, September, October and November. Nymphs have been recorded in July. Where stated, the associated plants were scentless mayweed, pineappleweed, scented mayweed, sea mayweed, chamomile or stinking chamomile; growing on a brownfield site, along a farm track, in an arable field margin, in a post-industrial area or on the coast. The bugs were found either on or under the plants.

The bug can be distinguished from its British congeners by its smaller size and short, fine tibial spines.

299B *Dicyphus pallidus* (Herrich-Schaeffer) (Miridae)

This plant bug was first found in the British Isles by R. P. Ryan on hedge woundwort along a shaded path in Homefield Wood, near Marlow, Buckinghamshire on 18 July 2009. It has since been recorded from the counties of Oxfordshire, Berkshire, Hertfordshire, Hampshire, Surrey, Sussex, Bedfordshire, Gloucestershire and Kent, adults occurring in the months of June, July, August and September. Nymphs have been recorded in July. Where stated, the associated plant is hedge woundwort growing in shaded woodland locations.

The bug is the largest British Dicyphus, with the hind tibia being at least 3.75mm long, compared with 3.25mm or less for the other species. It also has black hairs along the hind edge of the hind femur.

387A *Closterotomus trivialis* (A. Costa) (Miridae)

This plant bug was first found in the British Isles by L. Counter in a north London (Middlesex) garden on the ornamental shrub *Hypericum* 'Hidcote' in the summer of 2008. It has since been

recorded from the counties of Surrey, Oxfordshire, Norfolk, Westmoreland, Derbyshire and Cork, adults occurring in the months of May and June. Both adults and nymphs have been found on a variety of plants, in urban and natural settings. The nymphs have been recorded in May.

The bug is easily separated from its British congeners by its size, colouration and markings.

015A *Tritomegas sexmaculatus* (Rambur) (Cydnidae)

This shieldbug was first identified in the British Isles from a photograph taken by J. Elmore at Tyland Barn, Maidstone, Kent in April 2011. Adults and nymphs have been found at the same site in August on black horehound. There have been several more reports of the bug in Kent and one from Middlesex, adults occurring in the months of June, August and September. Where stated, the bug was found on black horehound, with one record for white dead nettle.

The bug can be separated from the similar *Tritomegas bicolor* (Linnaeus) by the white streak along the anterior margin of the pronotum. This is long and uniformly tapered in the former, and short and not uniform in the latter.

039B *Rhaphigaster nebulosa* (Poda) (Pentatomidae)

This shieldbug was first found in the British Isles at Rainham Marshes, Essex in September 2010, reported by T. M. Bantock, D. Notton and M. V. L. Barclay. It has since been recorded from several sites in London (Surrey, Kent & Middlesex), adults occurring in the months of July, September and October. Nymphs have been recorded in July, August and September. The only reported host plant is Common Lilac.

The bug can be distinguished from other shieldbugs by the mottled black markings on the wing membrane.

482A *Glaenocoris cavifrons* (Thomson) (Corixidae)

This waterboatman has recently been raised to specific rank, having previously been regarded as a subspecies of *Glaenocoris propinqua* (Fieber), as reported in the British literature by R. P. Ryan in 2013. Consequently, old records for the latter species are only valid if the subspecies is stated, or if they can be authenticated by tracing to a specimen. *G. cavifrons* has been recorded from the counties of Cumberland, Westmoreland, Yorkshire, Lancashire, Cheshire, Cambridgeshire, Hampshire, Somerset and Scotland, adults occurring in the month of July.

The bug can be separated from its congener by the arrangement of the palpal pegs.

174A *Coranus woodroffei* P.V. Putshkov (Reduviidae)

This assassin bug arose as a new species when it was separated from *Coranus subapterus* (De Geer) over thirty years ago, but this was not advertised in the British entomological literature until 2012 by R. P. Ryan. Consequently, old records for the latter species are only valid if they can be authenticated by tracing to a specimen. *Coranus woodroffei* has been recorded from the counties of Surrey, Lincolnshire, Hampshire, Norfolk and Suffolk, adults occurring in the months of July, August and September. Where stated, the bug has been found in road verges and sweeping ericaceous heath.

The bug is larger and its brachypterous forewings shorter than *C. subapterus*.

174B *Coranus aethiops* Jakovlev (Reduviidae)

This assassin bug was first found in the British Isles, beneath heather on Thorne Moor, Yorkshire on 20 September 1979, reported by S. Foster in 2013. The insect had been misidentified at the time as a melanic form of *Coranus subapterus* (De Geer). There is another record for the county on Hatfield Moor in 1990, where the bug was taken in water traps set in peat among heather.

The bug can be distinguished from its British congeners by its black abdominal venter, and by the spoon-shaped black parameres.

028A *Dyrodere umbraculatus* (Fabricius) (Pentatomidae)

This shieldbug was first found in the British Isles by R. K. & R. M. Merrifield working mixed hedgerow vegetation at Perivale Wood Local Nature Reserve, Middlesex on 29 June 2013. There has been one further reported site of the bug, Southampton Common, South Hampshire on 16 July & 7 September 2015.

The bug is distinctive and is unlikely to be confused with the other species of British shieldbug.

344B *Orthotylus junipericola* Linnavuori (Miridae)

This plant bug was first found in the British Isles by P. J. Hodge beating cypress in a cemetery in Kingston-upon-Thames, Surrey on 15 September 2008. It has since been recorded in Hampshire, Middlesex and Hertfordshire, adults occurring in the months of July, August and September, on cypress trees.

The bug is similar to *Orthotylus caprai* Wagner but can be separated by examination of the male genitalia.

409A *Tropidosteptes pacificus* (Van Duzee) (Miridae)

This plant bug was first found in the British Isles by T. Bantock beating ash at Alexandra Park, Middlesex on 11 June 2012. It was found again at the same site on 20 September 2012. The only other published record is for the Natural History Museum, Middlesex where it was found among malaise trap material collected in the wildlife garden in October 2012.

The bug is distinctive and is unlikely to be confused with other species of British plant bug.

Physatocheila confinis Horváth (Tingidae)

I have found no published records for this species in the British Isles, in spite of its inclusion in Ryan (2014a & 2014b), and there is therefore no evidence that it occurs here.

Annotated bibliography

075E *Nysius huttoni* F.B. White (Lygaeidae)

Cuming (2008). New to Britain, 17 September 2007, North Warren RSPB Reserve, East Suffolk. Adults and nymphs found at the same site in May 2008. Habitat was sparsely vegetated sandy soil.

Found at other sites on the Suffolk coast, including RSPB Minsmere.

Bowdrey (2009a). 19 July 2009, gravel pit at Thorpe-le-Soken, North Essex.

Gray (2016). 15 August 2015, Amwell Nature Reserve, Hertfordshire, sweeping sparsely vegetated sandy and gravelly area.

Ryan (2016f). Records for Cambridgeshire, Derbyshire and Norfolk, for the months of June, and August.

Bantock (2014d). Records for Suffolk, Essex, Kent and West Sussex. The last record was for Crumbles, Eastbourne, hundreds of adults swarming in a bare sandy area on 6.vii.2013.

Flanagan (2015a). Swept from brownfield land with sparse ruderal vegetation, Sheffield, South-west Yorkshire (VC63), 28.ix.2014. Record for Grove Farm (former landfill), Stanton-by-Dale, Derbyshire, 18.vi.2014.

Bantock (2016b). Record for Moorhouse Sand Pit, Limpsfield, Surrey on 18.vii.15.

Foster (2016). Post-industrial site, adjacent to the River Don Navigation Canal to the North of Doncaster, South-west Yorkshire, on an extensive patch of Black Meddick, August 2015.

Flanagan (2016). Record for a brownfield site near Mirfield (south-west of Dewsbury), close to the River Calder, on 10.ix.2015. Record for Gillfield Wood, near Sheffield, Watsonian Derbyshire, 8.viii.2015.

299A *Dicyphus escalerae* Lindberg (Miridae)

Kirby, Bantock & Nau (2009). First record in Battersea, 13 May 2008, from mixed tall ruderal vegetation on a mound of rubble. Also a record from a photograph, on *Antirrhinum* in a Leicestershire garden, 15th November 2008.

Aukema (2010). On *Antirrhinum majus* in concrete flower boxes in the centre of Teighmouth, South Devon (VC3) on 22 October 2009.

Telfer (2015). First record for 13 May 2008 on vegetation on mound of spoil at Battersea Power Station, Surrey. *D. escalerae* and *D. tamaninii* are very similar, but can be separated by the form of the left clasper. Both species are usually macropterous, but brachypters have been found in Britain.

Whitehead (2010). Record for 1 October 2006, Llandudno, Caernarvonshire on *Antirrhinum majus* L. Present in Worcestershire since 2004. Occurs on *A. majus*, *A. hispanicum* and *A. sempervirens* in

- Worcestershire and Gloucestershire. Record for Evesham, Worcestershire, 12 October 2008 on *A. majus* x *A. sempervirens*. Adults and nymphs on the same hybrid at Winchcombe, Gloucestershire on 28 October 2009, and on *A. sempervirens*. Adults continued here until 10 December 2009. Brachypters seen on cultivated *Diascia* at Evesham.
- Widgery (2010b). Repeat of above record for 2009, Winchcombe, Gloucestershire. Record for 17 August 2010 in a garden at Woodmancote, Gloucestershire.
- Ryan (2012b). Record for 10 July 2010 on snap dragon, Walton Street, Jericho, Oxford. Record for 22 July 2010 near St Barnabas School, Jericho, Oxford.
- Ryan (2016f). Records for Derbyshire and Warwickshire in July.
- Ryan (2014d). Records for 12 July 2013, growing from the base of a wall, Jericho, Oxford (Oxfordshire); and 20 September 2013, in a garden, New Hinksey, Oxford (Berkshire). 9% (7 of 78) of specimens were brachypters (six females and one male).
- Ryan (2015d). Records for East & West Gloucestershire.

130F *Metopoplax fuscinervis* Stål (Lygaeidae)

- Harvey (2008). First record by P. Harvey among specimens of *M. ditomoides*, indentified by P. Kirby, from West Thurrock Marshes, Essex, 2005.
- Denton (2017a). Record for North Hampshire.
- Denton (2017b). Record for Surrey.

344A *Orthotylus caprai* Wagner (Miridae)

- Ryan (2008). First record 3 August 2006 on Wellingtonia, University Parks, Oxford. Also nymphs on 22 July 2007 and adults on 3 August 2007 and 5 September 2007.
- Ryan (2013c). Repeat of above records, plus records for 2008, 2009, 2010 & 2011 at the same place.
- Ryan (2015b). Records for 30 July 2014 on Wellingtonia, Oxford University Museum, Oxford and on Smooth Arizona Cypress, University Parks, Oxford; 25 July 2015, adults and nymphs, Smooth Arizona Cypress, University Parks; adults and nymphs, 27 July 2015, Leyland Cypress, University Parks; adults, 31 July 2015, on Monterey Cypress, University Parks and on Wellingtonia, Wellington Square, Oxford; adults and nymphs, 31 July 2015, Hinksey Park, Oxford (Berkshire) on both Wellingtonia and Leyland Cypress; adults, 15 August 2015, Wolvercote and Botley cemeteries, Oxford, on Wellingtonia; adults, 9 August 2015, Garth Park, Bicester, on Wellingtonia and Monterey Cypress; adults, 2 August 2015, Vale Park, Aylesbury, Buckinghamshire, on Leyland Cypress.
- Ryan (2017c). Record for VC18.

050A *Leptoglossus occidentalis* Heidemann (Coreidae)

- Clancy (2009). Record at MV light, Bird Observatory, Dungeness, Kent, 30 August 2008.
- Witts & Russell (2009). First British record January 2007, Dorset. All but two records are at light and the bug has yet to be found in natural pine habitat. Many records for Kent in 2008 and 2009: August, September, October & November.
- Deans (2010). Record for 19 September 2009, Bawdsey, East Suffolk, at MV light.
- Knill-Jones (2010). Records for 27 & 30 October 2009, at MV light, Totland, Isle of Wight.
- Malumphy & Reid (2007). Record for Weymouth College, 2007.
- Malumphy, Botling, Bantock & Reid (2008). First record by B. Ford, Weymouth College, Dorset, January 2007. Then numerous adults found at light traps along the south coast of England. Since, it has been found at several inland locations in England, as far north as Kendal, Cumbria. All 35 British records are of adults in 15 vice-counties, in moth traps, in houses and one specimen found on a timber shipment from the USA, in August, September, October and November. There are no records on a live host plant in the UK, and breeding populations have not been found.
- Bantock & Nau (2009). Record of a nymph, 26 October 2009, on the door of a house, Wroxall, Isle of Wight. Many more records of adults in 2009. Vast majority from southern England, including some inland in Norfolk, Nottinghamshire and Northamptonshire.
- Bowdrey (2009b). Record at second floor office window, Colchester, North Essex, 2009. Records for Felixstowe, East Suffolk, 22 October 2008, 1 September 2009 & 12 October 2009; Ipswich, 8

- September 2009; Dunwich Forest, 19 September 2009; Minsmere, 20 September 2009; Banford, 10 October 2009.
- Dodd (2009). Record for 30 October 2009, in a toolstore, Pirbright, Surrey.
- Widgery (2010a). Record for 14 September 2009, in a fifth floor hotel room in Birmingham, Warwickshire.
- Wallhead (2010). Record for 13 June 2009, in a garden, Abbotswood Arboretum, East Gloucestershire.
- O'Sullivan (2010). Record for 20 October 2009, in offices, Sandy, Bedfordshire.
- Anonymous (2010). Since July 2009, FERA and Forest Research have received details of more than 100 sightings across 26 counties, north to Cumbria & Yorkshire and west to Cornwall.
- Brooke & Nau (2010). Records for 24 September 2010, in a house, Darlington, Durham; 3 October 2010, Leeds; 7 October 2010, York; 25 September 2010, Bodmin, Cornwall; 8 October 2010, Lyme Regis, Dorset; in a house, Cwmbran, Monmouthshire; SE Ireland.
- Campbell (2010). Record for 11 October 2010, Marchham, Berkshire, beaten from Norway Spruce.
- Widgery (2010b). Records for 11 October 2010, Abbotswood Arboretum, East Gloucestershire; 9 September 2010, Churchdown, Gloucester, on a kitchen window.
- Widgery (2011). Record for 1 November 2010, Stevenage, Hertfordshire.
- Judd (2011). Record for VC60.
- Ryan (2015d). Record for East Gloucestershire.
- Ryan (2015c). Record for East Cornwall.
- Ryan (2016c). Records for Wexford (VCH12) and Down (VCH38).
- Ryan (2016d). Records for Isle of Wight and South Hampshire.
- Ryan (2016e). Records for North and South Lincolnshire.
- Ryan (2016i). Record for Shropshire.
- Nelson (2015). Caught in a light trap at Kilkeel, Co Down in early October.
- Nelson (2016). Record for September in Co Down.

094A *Rhyparochromus vulgaris* (Schilling) (Lygaeidae)

- Nau (2010a). First record by N. Harvey, Rainham Marshes, South Essex. Very similar to *R. pini*, but lateral edges of pronotum narrowly pale along entire length in this species, but not in *R. vulgaris*. Also, the membrane of *R. vulgaris* has a clear apical mark.
- Bantock, Notton & Barclay (2011). Record for 22 September 2011, Warwick Gardens, Peckham Rye, Surrey.
- Bantock (2014d). Many adults under willow bark, Home Park, Hampton Court, Middlesex on 5.ix.2013. One adult under a log, Duke's Meadows, Chiswick, Middlesex on 27.viii.13.
- Flanagan (2015b). Records for 2014: Hackney Marshes, Middlesex (25th July and 3rd August); Wanstead Flats, South Essex (2 September).
- Ryan (2017d). Record for East Kent.

237A *Conostethus venustus* (Fieber) (Miridae)

- Flanagan (2011b). First record 31 May 2010, Centenary Riverside Nature Park, Rotherham, South Yorkshire, swept from a flower-rich, south-east-facing slope. The bug was frequent in areas containing *Tripleurospermum inodorum* (L.), scentless mayweed. Other sites found in VC63 on 6 June, 26 June, 14 August and 22 August 2010; in VC54 on 7 June and 27 July 2010; and in VC56 on 16 August 2010, on *T. inodorum* along a farm track.
- Nau (2010a). Repeat of original records.
- Flanagan (2010). Two more sites in South Yorkshire, on 26 June 2010 & 2 September 2010.
- Flanagan (2011a). Repeat of first record.
- Flanagan (2012). New records for South Yorkshire, Nottinghamshire (recorded into October) and East Yorkshire (along tracks, arable field margins, and on the coast).
- Flanagan & Dolling (2011). British host plants include scentless mayweed, pineappleweed, scented mayweed, sea mayweed, chamomile and stinking chamomile. Record for mid-July 2011, Arnold Carr near Beverley, East Yorkshire, under scentless mayweed along the margins of seed rape fields. Also on pineappleweed along a farm track. Record for early-July 2011, Nottinghamshire,

along margins of rape field, adults and nymphs mostly on the ground. Record for 19 August 2011, East Yorkshire coast at Sand-le-mere, within 10m of the sea on the thinly vegetated ground.

Flanagan (2013c). Record for 2012, brown-field site, Stavely, Derbyshire. Record for late August, Thorne Moor (VC63) on scentless mayweed. Record for 13 November 2012, under a single scentless mayweed at a wind turbine site. Record for 14 November 2012, nymph and adult.

Ryan (2016e). Record for North Lincolnshire.

Foster (2016). Post-industrial site, adjacent to the River Don Navigation Canal to the North of Doncaster, South-west Yorkshire, August 2015.

Flanagan (2016). Record for Teeside, County Durham, 2012. Record sweeping a mix of scented and scentless mayweed within a margin of a field of oil seed rape close to a mineral extraction site near Hepburn, County Durham and within 2km distance of the River Tyne, 30.vi.2015.

299B *Dicyphus pallidus* (Herrich-Schaeffer) (Miridae)

Ryan (2010). First record 18 July 2009 on hedge woundwort, *Stachys sylvatica* L., in Homefield Wood, near Marlow, Buckinghamshire, along a shaded path. Also from same place on 24 & 26 June 2010. Four more shaded woodland sites on same plant: Hogmoor Copse, near Pangbourne, Berkshire (29 June 2010); Beacon Hill, Aston Rowant NNR, Oxfordshire (2 July 2010); Sidlings Copse, near Oxford (6 July 2010); and The Holies, near Streatley, Berkshire (8 July 2010).

Ryan (2011). Records for 10 July 2011, Whitley Common, Surrey; 14 July 2011, Pitstone Hill, Chiltern Hills, Herts; 18 July 2011; Great Pen Wood, North Hants; 23 July 2011, Thursley Common, Surrey and Ash Park Wood, near Ifold, West Sussex; 31 July 2011, Botany Bay Wood, near Chiddingfold, Surrey; 22 July 2009, Lashford Lane Wood, Dry Sandford, Berkshire.

Ryan (2013b). Records for 10 July 2012, Clifton Heath, Oxfordshire; 17 July 2012, Swyncombe Downs, Oxfordshire; 28 July 2012, Buckland Warren, Berkshire.

Nau (2010b). Records for 4 July 2010, Wendover Wood, on hedge woundwort, along an open ride margin, adult and nymphs; 20 July 2010, Maulden Wood, Bedfordshire; 27 July 2010, Knowle Park, Sevenoaks, West Kent, sweeping hedge woundwort; 6 August 2010, Toddington Manor, Bedfordshire.

Ryan (2015d). Records for East Gloucestershire.

Ryan (2016d). Record for North Hampshire.

Widgery (2015). Record for 22nd September, Bushcombe Wood, Near Woodmancote, Gloucestershire. Further records from the same county for the woods at Waterhatch, The Warren (near Winchcombe) and near Snowhill.

387A *Closterotomus trivialis* (A. Costa) (Miridae)

Bantock (2010a). First record summer 2008, North London garden, found by L. Counter on an ornamental shrub, *Hypericum* 'Hidcote'. Seen again in early June 2009 in large numbers on the same bush. Further colonies found in neighbouring streets. Bugs continued to be found throughout July.

Bantock (2010b). Found again in 2010 in same area, and another colony found in Battersea. More host plants recorded, including Paeonia, Hebe and Convolvulus.

Ryan (2012c). Record for 5 June 2011, New Marston Meadows, Oxford, beating trees.

Hodge (2012). Record for Natural History Museum Wild Garden, London, Middlesex, abundant by sweeping flowery grassland habitat, 22 May 2011.

Flanagan (2013a). Record for Owlthorpe Meadow, Sheffield (VC57), 1 June 2011, swept from flower-rich grassland. Record for Lake Windermere, Cumbria, 12 June 2012, male swept from meadowsweet-rich vegetation on lake shore.

Flanagan (2013b). Record for 12 June 2012, sweeping stands of meadowsweet-rich vegetation on gravelly, stony substrate beside Lake Windermere at Bowness (VC69 Westmoreland). Also in 2011, Sheffield (VC63 SW Yorkshire) [An error, is VC57].

Bantock (2013b). Four new sites in London area in 2011, Middlesex & Surrey. More host plants recorded: Umbelliferae, sallows, rosebay willowherb.

Flanagan (2013d). Record for 1 June 2011, Owlthorpe Meadow, SE Sheffield (VC64) [An error, is VC57].

Ryan (2015a). Nymphs beaten from hawthorn, New Marston Meadows, Oxford, 30 May 2014. Adult from ash at the same time, sweeping the meadow (10 June), from the head of meadowsweet and beaten from hedgerow (11 June), and sweeping a sparsely vegetated area (14 June).

Ryan (2016h). Records for 20 June 2015 in Oxford, Oxfordshire: several dozen adults on a single Honey Locust 'Sunburst', *Gleditsia triacanthos* L. f. *inermis* in University Parks, conspicuous on the foliage, and were apt to fly or run around the other sides of the leaves when approached; beating White willow, *Salix alba* L. (Saliceaceae), New Marston Meadows; sweeping the unkempt area of my garden and in a flight interception trap (another specimen in the traps when emptied two weeks later). Records of nymphs (reared to adult), 17 May 2016, University Parks, taken from various plants, including Leyland Cypress, x *Cupressocyparis leylandii* (Jacks. Dallim.) Dallim. (Cupressaceae); Box, *Buxus sempervirens* L. (Buxaceae); and Rosemary, *Rosemarinus officinalis* L. (Lamiaceae).

Nelson (2016). Record from a photograph taken in Cork City on undeveloped land.

Ryan (2017e). Record for VC28 in June.

015A *Tritomegas sexmaculatus* (Rambur) (Cydnidae)

Bantock (2011). First record for Tyland Barn, Maidstone, Kent, April 2011, from a photograph taken by Jason Elmore. The bug was on large stands of black horehound. Adults and nymphs found in late August. Identified by the white streak along the anterior margin of the pronotum being long and uniformly tapered. It is short and not uniform in *T. bicolor*.

Bantock (2012). Record for Tyland Barn, Maidstone, Kent, August 2011 from a nymph reared on black Horehound, *Ballota nigra*.

Greenslade et al. (2013). Record for Bingley Island, Canterbury, Kent, July-August 2012.

Bantock (2014b). Further records from Kent. In all cases bugs were associated with stands of Black Horehound, *Ballota nigra*: Dartford, 27.ix.2012; Bingley's Island, Canterbury, 22.viii.2012 (nymphs reared to adult); Faversham, 24.vi.2013; Minster Marshes, 29.ix.2013; Westbere, 2013.

Bantock (2015). First record for Middlesex: Twickenham College, 14.viii.2014.

Barnard (2016). Darland Banks, Kent, 2015, early instar nymphs found on White Dead-nettle.

039B *Rhaphigaster nebulosa* (Poda) (Pentatomidae)

Bantock (2012). Record for Warwick Gardens, Peckham, London, 23 September 2011 on lilac.

Hodge (2014). Record for 13 September 2013, Warwick Gardens, Peckham, Surrey, beaten off mixed foliage.

Bantock, Notton & Barclay (2011). Records for Rainham Marshes, South Essex, September 2010; 18, 19 & 25 September & 1 October 2011, Lewisham garden, south London (West Kent); 2011, Warwick Gardens, Peckham Rye, early instar nymphs on Common Lilac (*Syringa vulgaris*), mid-July, final instar nymphs, mid-August, and adults in September.

Bantock (2014c). Further records from the London area: Wembley, 2012-2013; Warwick Gardens, Surrey, 2012-2013, adults and nymphs; Earl's Court, Middlesex, 21.vii.10; Newham, Essex, adult and nymph on 3.ix.2013.

482A *Glaenocoris cavifrons* (Thomson) (Corixidae)

Nelson (2013). Record of *G. p. cavifrons*, Islay, July 2011.

Ryan (2013a). Report of *Glaenocoris propinqua cavifrons* being raised to specific rank.

Ryan (2014a). *G. cavifrons*: records for Cumberland, Westmoreland, Yorkshire, Lancashire, Cheshire, Cambridgeshire, Hampshire, Somerset and Scotland.

Savage (1989). The bug can be separated from its congener by the arrangement of the palpi.

174A *Coranus woodroffe* P.V. Putshkov (Reduviidae)

Eversham & Telfer (1995). Record from road verges, Breckland, East Anglia.

Ryan (2014c). *Coranus woodroffe* arose as a new species when it was separated from *Coranus subapterus* (De Geer) over thirty years ago, but this was not advertised in the British entomological literature until Ryan (2012a). Records from a personal collection, swept from ericaceous heath, Thursley & Witley Commons, Surrey in August 2010 & 2012.

Ryan (2016e). Record for North Lincolnshire.

Ryan (2016g). Records for South Hampshire and West Suffolk in July and September.
 Ryan (2017e). Records for VC27 & VC28 in September.

174B *Coranus aethiops* Jakovlev (Reduviidae)

Foster (2013). First record 20 September 1979, Thorne Moor, South Yorkshire (SE71) on ground beneath heather. Also in 1990 on Hatfield Moor (SE60) in water traps set in dry, bare peat surrounded by heather. Specimens misidentified at the time as *C. subapterus*, and was considered a melanic form of this species. It can be distinguished from its British congeners by its black abdominal venter, and by the spoon-shaped black parameres.

028A *Dyroderes umbraculatus* (Fabricius) (Pentatomidae)

Nau, Merrifield & Merrifield (2014). First record 29 June 2013, Perivale Wood Local Nature Reserve, Middlesex by R.K. & R. M. Merrifield working mixed hedgerow vegetation.
 Bantock (2016a). Record for Southampton Common, South Hampshire on 16.vii.15 and 7.ix.15.

344B *Orthotylus junipericola* Linnavuori (Miridae)

Hodge (2008, 2009 & 2014). First record 15 September 2008, Kingston-upon-Thames, Surrey, beaten off cypress in a cemetery. Originally thought to be *O. caprai*.
 Denton (2015). Records for Aldershot Military Cemetery, North Hampshire, 13 August 2014, and Badshot Lea graveyard, Surrey, 15 August 2014, both on cypress trees.
 Bantock (2014a). Records for Kingston Cemetery (VC17), 15.ix.2008; Morden Park (VC17), 23.vii.2009; Chiswick (VC21), 2011; Cheshunt (VC20), 3.ix.2012; Crystal Palace (VC17), 19.vii.2013. In all cases bugs were beaten from *Cupressus*.

409A *Tropidosteptes pacificus* (Van Duzee) (Miridae)

Bantock (2013a). Alexandra Park, Middlesex, 11 June & 20 September 2012, swept from ash, *Fraxinus excelsior*, by T. Bantock.
 Bantock (2014d). Found in malaise trap material collected in the wildlife garden of the Natural History Museum, Middlesex between 3.x.2012 and 10.x.2012.

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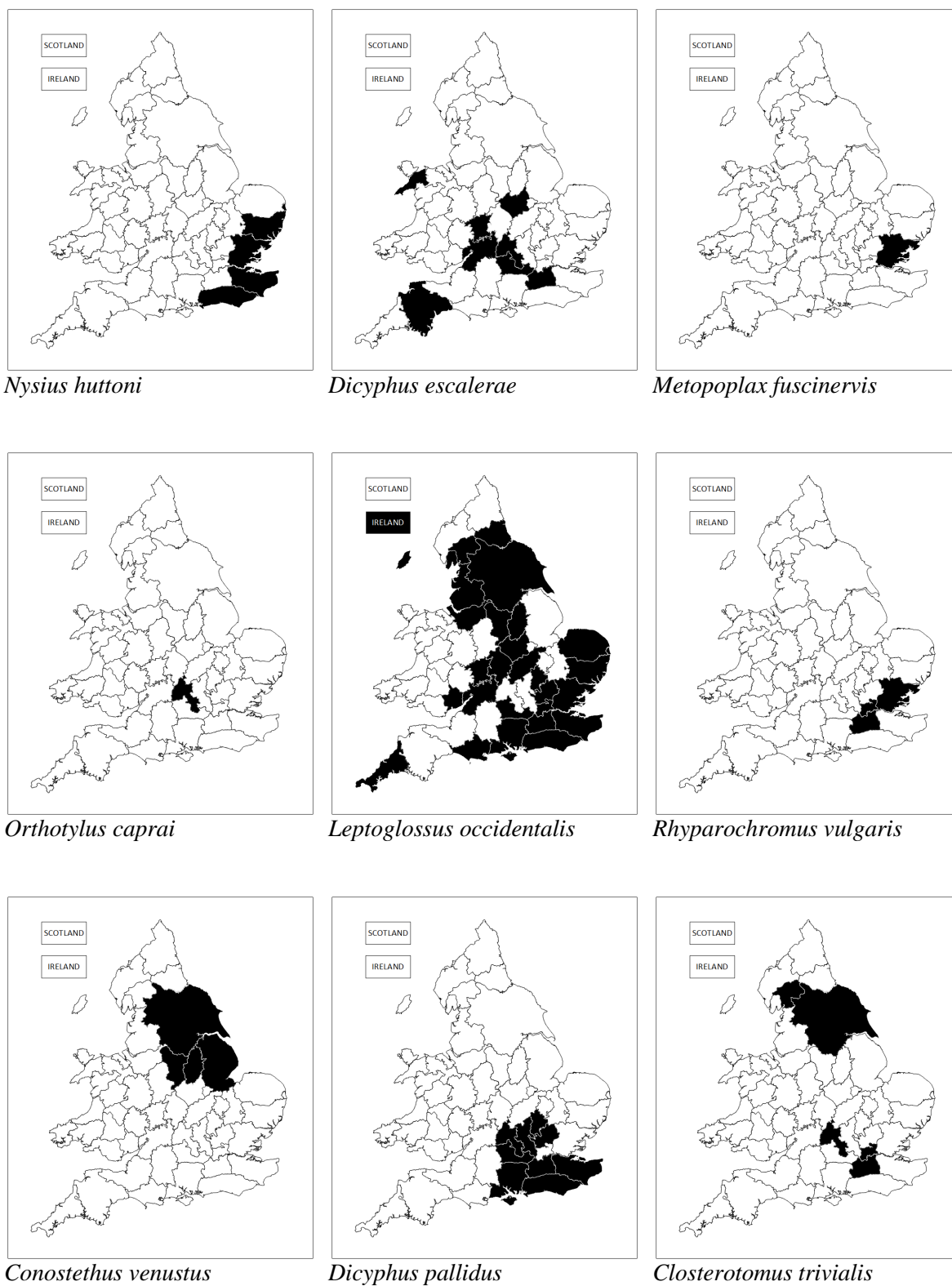
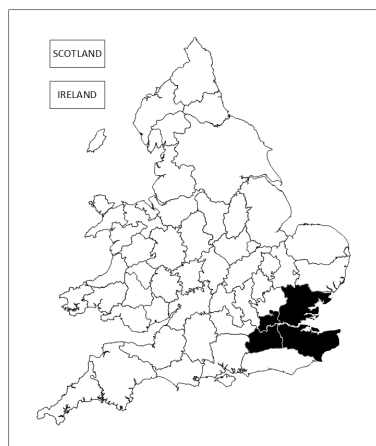


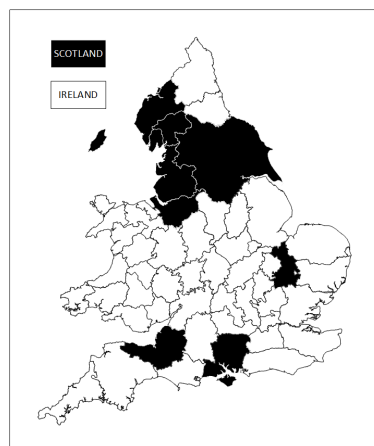
FIGURE 1. The county distributions of the described species (Ryan, 2014 a & 2014b).



Tritomegas sexmaculatus



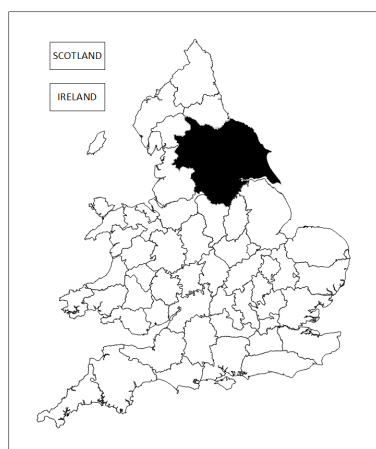
Rhaphigaster nebulosa



Glaenocoris cavifrons



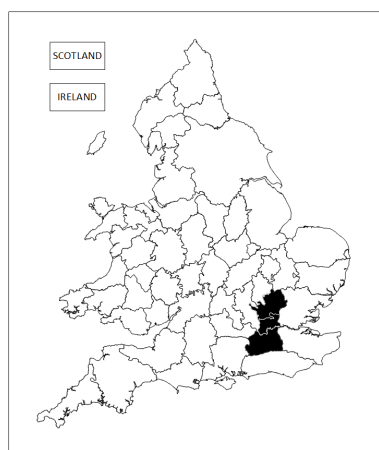
Coranus woodroffei



Coranus aethiops



Dyroderes umbraculatus



Orthotylus junipericola



Tropidosteptes pacificus

FIGURE 1 (CONTINUED).

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR SOMERSET INTO VICE-COUNTY LISTS FOR VC5 AND VC6

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Introduction

The list of Hemiptera-Heteroptera for Somerset in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian South Somerset (VC5) and Watsonian North Somerset (VC6).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a & 2018b). The resulting vice-county lists include 281 records, compared with 298 for the original Somerset list. The list for Somerset as a whole has shortened by 90, the decrease arising from five species added to the list and 95 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Somerset are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from Blathwayt (1906).

The divided records

ARADIDAE

<i>Aneurus laevis</i> (Fabricius) [DELETED]	-	-
<i>Aradus depressus</i> (Fabricius) [DELETED]	-	-

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	-	VC6
<i>Cyphostethus tristriatus</i> (Fabricius) [DELETED]	-	-
<i>Elasmotethus interstinctus</i> (Linnaeus) [DELETED]	-	-
<i>Elasmucha grisea</i> (Linnaeus) [DELETED]	-	-

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus) [DELETED]	-	-
<i>Legnotus limbosus</i> (Geoffroy)	VC5	-
<i>Legnotus picipes</i> (Fallén)	VC5 (14)	-
<i>Sehirus luctuosus</i> Mulsant & Rey [DELETED]	-	-
<i>Tritomegas bicolor</i> (Linnaeus)	-	VC6

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	-	VC6
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SCUTELLERIDAE

<i>Eurygaster maura</i> (Linnaeus) [DELETED]	-	-
<i>Eurygaster testudinaria</i> (Geoffroy)	-	VC6 (15)

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC5	-
<i>Dolycoris baccarum</i> (Linnaeus)	VC5 (2)	VC6
<i>Eurydema oleracea</i> (Linnaeus) [DELETED]	-	-
<i>Eysarcoris venustissimus</i> (Schränk) [DELETED]	-	-
<i>Neottiglossa pusilla</i> (Gmelin)	VC5	-
<i>Palomena prasina</i> (Linnaeus)	VC5	VC6 (16)
<i>Pentatoma rufipes</i> (Linnaeus)	VC5 (2)	VC6
<i>Peribalus strictus</i> (Fabricius)	-	VC6
<i>Picromerus bidens</i> (Linnaeus) [DELETED]	-	-
<i>Piezodorus lituratus</i> (Fabricius)	VC5 (1)	VC6
<i>Podops inunctus</i> (Fabricius)	VC5 (26)	VC6
<i>Rhacognathus punctatus</i> (Linnaeus) [DELETED]	-	-
<i>Sciocoris cursitans</i> (Fabricius)	-	VC6
<i>Troilus luridus</i> (Fabricius)	VC5 (1)	-
<i>Zicrona caerulea</i> (Linnaeus)	-	VC6

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	-	VC6 (17)
<i>Ceraleptus lividus</i> Stein	-	VC6 (17)
<i>Coreus marginatus</i> (Linnaeus)	VC5 (1)	-
<i>Coriomeris denticulatus</i> (Scopoli)	VC5	-
<i>Enoplops scapha</i> (Fabricius) [DELETED]	-	-
<i>Syromastus rhombeus</i> (Linnaeus)	-	VC6

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus) [DELETED]	-	-
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RHOPALIDAE

<i>Chorosoma schillingii</i> (Schilling)	-	VC6 (17)
<i>Corizus hyoscyami</i> (Linnaeus)	-	VC6 (9)
<i>Liorhyssus hyalinus</i> (Fabricius) [NEW]	-	VC6 (11)
<i>Myrmus miriformis</i> (Fallén)	VC5 (1)	-
<i>Rhopalus parumpunctatus</i> Schilling [DELETED]	-	-
<i>Rhopalus subrufus</i> (Gmelin)	VC5 (1)	-
<i>Stictopleurus abutilon</i> (Rossi)	-	VC6 (10)

STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli) [DELETED]	-	-
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LYGAEIDAE

<i>Acompus rufipes</i> (Wolff) [DELETED]	-	-
<i>Chilacis typhae</i> (Perris)	VC5 (2)	-
<i>Cymus claviculus</i> (Fallén) [DELETED]	-	-
<i>Cymus glandicolor</i> Hahn	-	VC6 (14)
<i>Drymus ryei</i> Douglas & Scott [DELETED]	-	-
<i>Drymus sylvaticus</i> (Fabricius)	VC5 (2)	VC6
<i>Gastrodes grossipes</i> (De Geer) [DELETED]	-	-
<i>Graptopeltus lynceus</i> (Fabricius) [DELETED]	-	-
<i>Heterogaster artemisiae</i> Schilling [DELETED]	-	-
<i>Heterogaster urticae</i> (Fabricius) [DELETED]	-	-
<i>Ischnocoris angustulus</i> (Boheman)	VC5 (2)	-
<i>Ischnodemus sabuleti</i> (Fallén)	-	VC6 (15)
<i>Kleidocerys ericae</i> (Horváth)	VC5 (1)	-
<i>Kleidocerys resedae</i> (Panzer) [DELETED]	-	-

LYGAEIDAE (CONTINUED)

<i>Macrodema microptera</i> (Curtis)	VC5 (1)	-
<i>Macroplax preyssleri</i> (Fieber)	-	VC6 (18)
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	-	VC6 (17)
<i>Nysius ericae</i> (Schilling) [NEW]	VC5 (26)	-
<i>Nysius thymi</i> (Wolff) [DELETED]	-	-
<i>Pachybrachius fracticollis</i> (Schilling)	VC5	-
<i>Peritrechus geniculatus</i> (Hahn)	VC5	-
<i>Plinthinus brevipennis</i> (Latreille)	VC5 (1)	-
<i>Rhyparochromus pini</i> (Linnaeus)	-	VC6 (19)
<i>Scolopostethus affinis</i> (Schilling)	VC5 (1)	VC6
<i>Scolopostethus decoratus</i> (Hahn)	VC5 (1)	-
<i>Scolopostethus puberulus</i> Horváth [DELETED]	-	-
<i>Scolopostethus thomsoni</i> Reuter [DELETED]	-	-
<i>Stygnocoris fuligineus</i> (Geoffroy)	VC5 (2)	-
<i>Stygnocoris rusticus</i> (Fallén)	-	VC6
<i>Stygnocoris sabulosus</i> (Schilling)	VC5 (2)	-
<i>Trapezonotus arenarius</i> (Linnaeus)	-	VC6 (20)
<i>Trapezonotus desertus</i> Seidenstücker	-	VC6 (21)

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius) [DELETED]	-	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	-	VC6
<i>Berytinus montivagus</i> (Meyer-Dür) [DELETED]	-	-
<i>Berytinus signoreti</i> (Fieber)	VC5 (2)	-
<i>Gampsocoris punctipes</i> (Germar)	VC5 (1)	-
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	-	VC6 (12)
<i>Neides tipularius</i> (Linnaeus) [DELETED]	-	-

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	VC5 (1)	-
<i>Piesma maculatum</i> (Laporte)	VC5 (1)	-

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	-	VC6 (19)
<i>Acalypta nigrina</i> (Fallén)	-	VC6 (5)
<i>Acalypta parvula</i> (Fallén)	VC5 (2)	VC6
<i>Agramma laetum</i> (Fallén) [DELETED]	-	-
<i>Campylosteira verna</i> (Fallén) [DELETED]	-	-
<i>Catoplatus fabricii</i> (Stål) [DELETED]	-	-
<i>Derephysia foliacea</i> (Fallén)	VC5 (1)	-
<i>Dictyla convergens</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Dictyonota strichnocera</i> Fieber	VC5 (1)	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	VC5 (1)	VC6
<i>Physatocheila smreczynskii</i> China	-	VC6
<i>Stephanitis rhododendri</i> Horváth [DELETED]	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	VC5 (26)	VC6 (16)
<i>Tingis cardui</i> (Linnaeus)	VC5 (2)	VC6
<i>Tingis reticulata</i> Herrich-Schaeffer	VC5 (2)	-

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer) [DELETED]	-	-
<i>Empicoris vagabundus</i> (Linnaeus) [DELETED]	-	-
<i>Reduvius personatus</i> (Linnaeus)	-	VC6

NABIDAE

<i>Himacerus apterus</i> (Fabricius) [DELETED]	-	-
<i>Himacerus boops</i> (Schjødte)	-	VC6 (3)
<i>Himacerus major</i> (A. Costa)	VC5 (1)	VC6
<i>Himacerus mirmicoides</i> (O. Costa)	VC5 (1)	VC6
<i>Nabis brevis</i> Scholtz [DELETED]	-	-
<i>Nabis ericetorum</i> Scholtz [DELETED]	-	-
<i>Nabis fesus</i> (Linnaeus)	VC5 (1)	-
<i>Nabis flavomarginatus</i> Scholtz	-	VC6
<i>Nabis limbatus</i> Dahlbom	VC5 (1)	-
<i>Nabis lineatus</i> Dahlbom [DELETED]	-	-
<i>Nabis rugosus</i> (Linnaeus)	VC5 (1)	VC6

ANTHOCORIDAE

<i>Acomporis pygmaeus</i> (Fallén) [DELETED]	-	-
<i>Anthocoris confusus</i> Reuter	VC5 (1)	-
<i>Anthocoris gallarumulmi</i> (De Geer) [DELETED]	-	-
<i>Anthocoris nemoralis</i> (Fabricius)	-	VC6
<i>Anthocoris nemorum</i> (Linnaeus)	VC5 (1)	VC6
<i>Anthocoris visci</i> Douglas [DELETED]	-	-
<i>Buchananiella continua</i> (F.B. White)	-	VC6 (27)
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	-	VC6 (3)
<i>Lyctocoris campestris</i> (Fabricius)	-	VC6
<i>Orius majusculus</i> (Reuter)	VC5 (1)	-
<i>Orius niger</i> (Wolff) [DELETED]	-	-
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	VC5 (1)	-
<i>Xylocoridea brevipennis</i> Reuter	-	VC6 (3)
<i>Xylocoris cursitans</i> (Fallén) [DELETED]	-	-
<i>Xylocoris galactinus</i> (Fieber)	-	VC6

CIMICIDAE

<i>Cimex lectularius</i> Linnaeus	-	VC6
<i>Oeciacus hirundinis</i> (Lamarck)	VC5 (22)	VC6 (6)

MICROPHYSIDAE

<i>Loricula elegantula</i> (Baerensprung)	VC5 (1)	VC6
<i>Loricula pselaphiformis</i> Curtis	VC5 (2)	VC6

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	VC5 (26)	VC6
<i>Adelphocoris lineolatus</i> (Goeze)	VC5 (1)	-
<i>Adelphocoris seticornis</i> (Fabricius)	-	VC6 (15)
<i>Adelphocoris ticinensis</i> (Meyer-Dür) [DELETED]	-	-
<i>Amblytylus nasutus</i> (Kirschbaum) [NEW]	VC5 (26)	-
<i>Apolygus lucorum</i> (Meyer-Dür)	VC5	VC6 (7)
<i>Apolygus spinolae</i> (Meyer-Dür)	VC5 (2)	-
<i>Asciodema obsoleta</i> (Fieber)	VC5 (1)	-
<i>Atractotomus magnicornis</i> (Fallén)	VC5 (1)	-
<i>Atractotomus mali</i> (Meyer-Dür)	-	VC6
<i>Blepharidopterus angulatus</i> (Fallén)	VC5 (1)	VC6
<i>Bryocoris pteridis</i> (Fallén)	VC5 (1)	-
<i>Calocoris alpestris</i> (Meyer-Dür) [DELETED]	-	-
<i>Calocoris roseomaculatus</i> (De Geer)	-	VC6
<i>Camptozygum aequale</i> (Villers) [DELETED]	-	-
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	VC5 (1)	VC6

MIRIDAE (CONTINUED)

<i>Capsodes sulcatus</i> (Fieber)	-	VC6
<i>Capsus ater</i> (Linnaeus)	VC5 (26)	VC6
<i>Capsus wagneri</i> (Remane)	-	VC6 (23)
<i>Charagochilus gyllenhalii</i> (Fallén) [DELETED]	-	-
<i>Chlamydatius pullus</i> (Reuter) [DELETED]	-	-
<i>Chlamydatius saltitans</i> (Fallén)	VC5 (2)	-
<i>Closterotomus fulvomaculatus</i> (De Geer) [DELETED]	-	-
<i>Closterotomus norwegicus</i> (Gmelin)	VC5 (1)	VC6
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	VC5 (1)	-
<i>Conostethus roseus</i> (Fallén)	-	VC6 (16)
<i>Cyllecoris histrionius</i> (Linnaeus)	VC5	-
<i>Deraeocoris lutescens</i> (Schilling)	-	VC6
<i>Deraeocoris ruber</i> (Linnaeus)	VC5 (2)	VC6
<i>Dichroscytus rufipennis</i> (Fallén) [DELETED]	-	-
<i>Dicyphus annulatus</i> (Wolff)	VC5 (1)	-
<i>Dicyphus constrictus</i> (Boheman) [DELETED]	-	-
<i>Dicyphus epilobii</i> Reuter	VC5 (1)	VC6
<i>Dicyphus errans</i> (Wolff)	-	VC6
<i>Dicyphus globulifer</i> (Fallén) [DELETED]	-	-
<i>Dicyphus pallicornis</i> (Fieber) [DELETED]	-	-
<i>Dicyphus stachydis</i> J. Sahlberg	VC5 (1)	-
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	-	VC6
<i>Globiceps flavomaculatus</i> (Fabricius)	-	VC6
<i>Grypocoris stysi</i> (Wagner)	-	VC6
<i>Hallodapus montandoni</i> Reuter	-	VC6 (17)
<i>Harpocera thoracica</i> (Fallén)	-	VC6
<i>Heterocordylus genistae</i> (Scopoli)	VC5 (8)	-
<i>Heterocordylus tibialis</i> (Hahn) [DELETED]	-	-
<i>Heterotoma planicornis</i> (Pallas)	VC5 (1)	VC6
<i>Hoplomachus thunbergii</i> (Fallén) [DELETED]	-	-
<i>Hypseloecus visci</i> (Puton)	VC5 (13)	-
<i>Leptopterna dolabrata</i> (Linnaeus)	VC5 (1)	VC6
<i>Leptopterna ferrugata</i> (Fallén)	VC5 (26)	VC6
<i>Liocoris tripustulatus</i> (Fabricius)	VC5 (1)	VC6
<i>Lopus decolor</i> (Fallén)	VC5 (1)	-
<i>Lygocoris pabulinus</i> (Linnaeus)	VC5 (1)	VC6
<i>Lygocoris rugicollis</i> (Fallén)	VC5 (1)	-
<i>Lygus rugulipennis</i> Poppius	VC5 (26)	VC6 (16)
<i>Macrotylus paykullii</i> (Fallén)	VC5 (1)	-
<i>Malacocoris chlorizans</i> (Panzer)	VC5 (1)	VC6
<i>Mecomma ambulans</i> (Fallén)	VC5 (1)	-
<i>Megaloceroea recticornis</i> (Geoffroy) [DELETED]	-	-
<i>Miridius quadrivirgatus</i> (A. Costa) [DELETED]	-	-
<i>Miris striatus</i> (Linnaeus) [DELETED]	-	-
<i>Monalocoris filicis</i> (Linnaeus)	VC5 (1)	-
<i>Neolygus contaminatus</i> (Fallén)	VC5 (1)	VC6
<i>Neolygus viridis</i> (Fallén)	-	VC6 (16)
<i>Notostira elongata</i> (Geoffroy)	VC5 (2)	VC6
<i>Orthocephalus saltator</i> (Hahn)	VC5 (26)	-
<i>Orthonotus rufifrons</i> (Fallén)	VC5 (2)	-
<i>Orthotylus adenocarpi</i> (Perris)	-	VC6
<i>Orthotylus concolor</i> (Kirschbaum)	-	VC6 (16)
<i>Orthotylus ericetorum</i> (Fallén)	VC5 (1)	-
<i>Orthotylus flavinervis</i> (Kirschbaum) [DELETED]	-	-

MIRIDAE (CONTINUED)

<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC5 (1)	-
<i>Orthotylus marginalis</i> Reuter [DELETED]	-	-
<i>Orthotylus ochrotrichus</i> Fieber [NEW]	VC5 (2)	-
<i>Orthotylus tenellus</i> (Fallén) [DELETED]	-	-
<i>Pantilius tunicatus</i> (Fabricius) [DELETED]	-	-
<i>Parapsallus vitellinus</i> (Scholtz) [DELETED]	-	-
<i>Phoenicocoris obscurellus</i> (Fallén) [DELETED]	-	-
<i>Phylus coryli</i> (Linnaeus)	-	VC6 (16)
<i>Phylus melanocephalus</i> (Linnaeus) [DELETED]	-	-
<i>Phytocoris longipennis</i> Flor	VC5 (1)	VC6
<i>Phytocoris populi</i> (Linnaeus) [DELETED]	-	-
<i>Phytocoris reuteri</i> Saunders [DELETED]	-	-
<i>Phytocoris tiliae</i> (Fabricius)	VC5 (1)	VC6
<i>Phytocoris ulmi</i> (Linnaeus)	VC5 (1)	VC6
<i>Phytocoris varipes</i> Boheman	VC5 (1)	VC6
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC5 (1)	-
<i>Pinalitus rubricatus</i> (Fallén) [DELETED]	-	-
<i>Pinalitus viscicola</i> (Puton) [DELETED]	-	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC5 (1)	-
<i>Plagiognathus arbustorum</i> (Fabricius)	VC5 (1)	VC6
<i>Plagiognathus chrysanthemi</i> (Wolff)	VC5 (26)	VC6
<i>Platycranus bicolor</i> (Douglas & Scott) [DELETED]	-	-
<i>Polymerus nigrita</i> (Fallén) [DELETED]	-	-
<i>Polymerus unifasciatus</i> (Fabricius) [DELETED]	-	-
<i>Psallodema fieberi</i> (Fieber) [DELETED]	-	-
<i>Psallus ambiguus</i> (Fallén)	-	VC6
<i>Psallus flavellus</i> Stichel [DELETED]	-	-
<i>Psallus haematodes</i> (Gmelin)	VC5 (1)	VC6
<i>Psallus lepidus</i> Fieber [DELETED]	-	-
<i>Psallus salicis</i> (Kirschbaum)	VC5 (1)	VC6
<i>Psallus varians</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür) [DELETED]	-	-
<i>Rhabdomiris striatellus</i> (Fabricius) [DELETED]	-	-
<i>Salicarus roseri</i> (Herrich-Schaeffer)	-	VC6 (16)
<i>Stenodema calcarata</i> (Fallén)	VC5 (26)	VC6
<i>Stenodema holsata</i> (Fabricius)	VC5 (1)	-
<i>Stenodema laevigata</i> (Linnaeus)	VC5 (1)	VC6
<i>Stenotus binotatus</i> (Fabricius)	VC5 (26)	VC6
<i>Sthenarus rotermundi</i> (Scholtz)	-	VC6
<i>Strongylocoris luridus</i> (Fallén) [DELETED]	-	-
<i>Systellonotus triguttatus</i> (Linnaeus) [DELETED]	-	-
<i>Tinicephalus hortulanus</i> (Meyer-Dür) [DELETED]	-	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	-	VC6 (24)

SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	-	VC6 (4)
<i>Halosalda lateralis</i> (Fallén) [DELETED]	-	-
<i>Salda littoralis</i> (Linnaeus) [DELETED]	-	-
<i>Saldula arenicola</i> (Scholtz) [DELETED]	-	-
<i>Saldula c-album</i> (Fieber) [DELETED]	-	-
<i>Saldula orthochila</i> (Fieber)	VC5	-
<i>Saldula pilosella</i> (Thomson) [DELETED]	-	-
<i>Saldula saltatoria</i> (Linnaeus)	VC5	-

MESOVELIIDAE		
<i>Mesovelia furcata</i> Mulsant & Rey	VC5 (25)	VC6 (25)
HEBRIDAE		
<i>Hebrus ruficeps</i> Thomson [DELETED]	-	-
HYDROMETRIDAE		
<i>Hydrometra stagnorum</i> (Linnaeus)	VC5 (25)	VC6 (25)
VELIIDAE		
<i>Microvelia reticulata</i> (Burmeister)	VC5 (25)	VC6 (25)
<i>Velia caprai</i> Tamanini	VC5 (25)	VC6 (25)
<i>Velia saulii</i> Tamanini	VC5 (25)	-
GERRIDAE		
<i>Aquarius najas</i> (De Geer)	VC5 (25)	VC6
<i>Gerris argentatus</i> Schummel	VC5 (25)	VC6 (25)
<i>Gerris gibbifer</i> Schummel	VC5 (1)	VC6 (25)
<i>Gerris lacustris</i> (Linnaeus)	VC5 (25)	VC6 (25)
<i>Gerris odontogaster</i> (Zetterstedt)	VC5 (25)	VC6 (25)
<i>Gerris thoracicus</i> Schummel	VC5 (25)	-
NEPIDAE		
<i>Nepa cinerea</i> Linnaeus	VC5 (25)	VC6 (25)
<i>Ranatra linearis</i> (Linnaeus)	VC5 (25)	VC6 (25)
NAUCORIDAE		
<i>Ilyocoris cimicoides</i> (Linnaeus)	VC5 (25)	VC6 (25)
APHELOCHEIRIDAE		
<i>Aphelocheirus aestivalis</i> (Fabricius)	VC5 (25)	VC6 (25)
NOTONECTIDAE		
<i>Notonecta glauca</i> Linnaeus	VC5 (25)	VC6 (25)
<i>Notonecta maculata</i> Fabricius	-	VC6 (25)
<i>Notonecta obliqua</i> Thunberg	VC5 (25)	VC6 (25)
<i>Notonecta viridis</i> Delcourt	VC5 (25)	VC6 (25)
PLEIDAE		
<i>Plea minutissima</i> Leach	VC5 (25)	VC6 (25)
CORIXIDAE		
<i>Arctocorisa carinata</i> (C.R. Sahlberg) [NEW]	-	VC6 (4)
<i>Arctocorisa germari</i> (Fieber) [DELETED]	-	-
<i>Callicorixa praeusta</i> (Fieber)	VC5 (25)	VC6 (25)
<i>Corixa affinis</i> Leach	-	VC6 (25)
<i>Corixa panzeri</i> Fieber	VC5 (25)	VC6 (4)
<i>Corixa punctata</i> (Illiger)	VC5 (25)	VC6 (25)
<i>Cymatia bonsdorffii</i> (C.R. Sahlberg)	-	VC6 (4)
<i>Cymatia coleoptrata</i> (Fabricius)	VC5 (25)	VC6
<i>Glaenocorisa cavifrons</i> (Thomson) [DELETED]	-	-
<i>Glaenocorisa propinqua</i> (Fieber)	-	VC6 (4)
<i>Hesperocorixa castanea</i> (Thomson)	-	VC6 (25)
<i>Hesperocorixa linnaei</i> (Fieber)	VC5 (25)	VC6 (25)
<i>Hesperocorixa moesta</i> (Fieber)	-	VC6 (25)

CORIXIDAE (CONTINUED)

<i>Hesperocorixa sahlbergi</i> (Fieber)	VC5 (25)	VC6 (25)
<i>Micronecta poweri</i> (Douglas & Scott) [DELETED]	-	-
<i>Micronecta scholtzi</i> (Fieber)	-	VC6 (25)
<i>Paracorixa concinna</i> (Fieber)	VC5 (25)	-
<i>Sigara distincta</i> (Fieber)	-	VC6 (25)
<i>Sigara dorsalis</i> (Leach)	VC5 (25)	VC6 (25)
<i>Sigara falleni</i> (Fieber)	VC5 (25)	VC6 (25)
<i>Sigara fossarum</i> (Leach)	-	VC6 (25)
<i>Sigara lateralis</i> (Leach)	VC5 (25)	VC6 (25)
<i>Sigara limitata</i> (Fieber) [DELETED]	-	-
<i>Sigara nigrolineata</i> (Fieber)	VC5 (25)	-
<i>Sigara scotti</i> (Douglas & Scott) [DELETED]	-	-
<i>Sigara semistriata</i> (Fieber)	-	VC6 (25)
<i>Sigara stagnalis</i> (Leach)	VC5 (25)	VC6 (25)
<i>Sigara venusta</i> (Douglas & Scott)	VC5 (25)	-

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Brown (1929)	(15) Masee (1962)
(2) Brown (1930)	(16) Wightman (1968)
(3) Daltry (1932)	(17) Southgate (1955)
(4) Walton (1936)	(18) Dolling (1970)
(5) Bedwell (1934)	(19) Kirby (1997)
(6) Godfrey (1977)	(20) Woodroffe (1960)
(7) Hey (1937)	(21) Judd (1998)
(8) Drake (2012)	(22) George (1989)
(9) Evans & Edmondson (2005)	(23) Hodge (1990)
(10) Boyd, Boyd & Evans (2005)	(24) Scudder (1957b)
(11) Denton (2017)	(25) Huxley (2003)
(12) Morley (1944)	(26) Hollier (1988)
(13) Gibbs & Nau (2005)	(27) Whitehead (2005)
(14) Scudder (1957a)	

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I am most grateful to Keith Alexander for making me aware of the Somerset Archaeological & Natural History Society, which led to the discovery of Hollier (1988).

AN ADDENDUM TO SAUNDERS' SYNOPSIS OF BRITISH HEMIPTERA-HETEROPTERA AND DOUGLAS & SCOTT'S BRITISH HEMIPTERA-HETEROPTERA

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Douglas & Scott (1865) was the first textbook that covered the British Hemiptera-Heteroptera as a whole. Alas, it was rather incomplete and was subject to many additions and corrections in the following years, necessitating the publication of the Synopsis of Saunders (1875a, 1875b & 1876) to present a more complete British list. Further additions and corrections occurred over the 17 years till the publication of Saunders (1892). In order that bug records for this period may be correctly interpreted, I present below a checklist of the modern names of the British Hemiptera-Heteroptera with the corresponding names used as headings for the species accounts in the Synopsis and, in square brackets, those in Douglas & Scott (1865) where different. The name correspondences were derived from Saunders (1892), Butler (1923) and the addenda to these works (Ryan, 2016a & 2018a). Multiple correspondences due to ambiguous species names are not shown here, but are documented in Ryan (2015, 2016b, 2018b & 2018c).

ARADIDAE

<i>Aneurus avenius</i> (Dufour)	-
<i>Aneurus laevis</i> (Fabricius)	<i>Aneurus laevis</i>
<i>Aradus aterrimus</i> Fieber	<i>Aradus aterrimus</i>
<i>Aradus betulae</i> (Linnaeus)	-
<i>Aradus cinnamomeus</i> Panzer	-
<i>Aradus corticalis</i> (Linnaeus)	<i>Aradus corticalis</i>
<i>Aradus depressus</i> (Fabricius)	<i>Aradus depressus</i>

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	<i>Acanthosoma haemorrhoidale</i>
<i>Cyphostethus tristriatus</i> (Fabricius)	<i>Acanthosoma tristriatum</i> [pictum]
<i>Elasmotethus interstinctus</i> (Linnaeus)	<i>Acanthosoma dentatum</i>
<i>Elasmucha ferrugata</i> (Fabricius)	-
<i>Elasmucha grisea</i> (Linnaeus)	<i>Acanthosoma griseum</i>

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	<i>Sehirus biguttatus</i>
<i>Byrsinus flavicornis</i> (Fabricius)	-
<i>Canthophorus impressus</i> (Horváth)	<i>Sehirus dubius</i>
<i>Geotomus punctulatus</i> (A. Costa)	<i>Geotomus punctulatus</i> [-]
<i>Legnotus limbosus</i> (Geoffroy)	<i>Sehirus albomarginatus</i>
<i>Legnotus picipes</i> (Fallén)	<i>Sehirus picipes</i> [-]
<i>Sehirus luctuosus</i> Mulsant & Rey	<i>Sehirus morio</i>
<i>Tritomegas bicolor</i> (Linnaeus)	<i>Sehirus bicolor</i>
<i>Tritomegas sexmaculatus</i> (Rambur)	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	<i>Corimelaena scarabaeoides</i> [Scarabaeoides]
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SCUTELLERIDAE

<i>Eurygaster austriaca</i> (Schrank)	<i>Eurygaster niger</i> [hottentottus]
<i>Eurygaster maura</i> (Linnaeus)	<i>Eurygaster maurus</i>
<i>Eurygaster testudinaria</i> (Geoffroy)	-
<i>Odontoscelis fuliginosa</i> (Linnaeus)	<i>Odontoscelis fuliginosus</i>
<i>Odontoscelis lineola</i> Rambur	-

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	<i>Aelia acuminata</i>
<i>Carpocoris mediterraneus</i> Tamanini	-
<i>Carpocoris purpureipennis</i> (De Geer)	<i>Pentatoma baccarum</i> [nigricorne]
<i>Chlorochroa juniperina</i> (Linnaeus)	<i>Pentatoma juniperinum</i>
<i>Dolycoris baccarum</i> (Linnaeus)	<i>Pentatoma verbasci</i> [baccarum]
<i>Dyrodere umbraculatus</i> (Fabricius)	-
<i>Eurydema dominulus</i> (Scopoli)	<i>Strachia festiva</i> [ornata]
<i>Eurydema oleracea</i> (Linnaeus)	<i>Strachia oleracea</i>
<i>Eurydema ornata</i> (Linnaeus)	-
<i>Eysarcoris aeneus</i> (Scopoli)	<i>Eysarcoris aeneus</i>
<i>Eysarcoris venustissimus</i> (Schrank)	<i>Eysarcoris melanocephalus</i>
<i>Jalla dumosa</i> (Linnaeus)	<i>Jalla dumosa</i>
<i>Neottiglossa pusilla</i> (Gmelin)	<i>Aelioides inflexus</i> [inflexa]
<i>Nezara viridula</i> (Linnaeus)	-
<i>Palomena prasina</i> (Linnaeus)	<i>Pentatoma viridissima</i> [dissimile]
<i>Pentatoma rufipes</i> (Linnaeus)	<i>Tropicoris rufipes</i>
<i>Peribalus strictus</i> (Fabricius)	<i>Pentatoma vernale</i>
<i>Picromerus bidens</i> (Linnaeus)	<i>Picromerus bidens</i>
<i>Piezodorus lituratus</i> (Fabricius)	<i>Piezodorus lituratus</i> [purpureipennis]
<i>Podops inunctus</i> (Fabricius)	<i>Podops inunctus</i>
<i>Rhacognathus punctatus</i> (Linnaeus)	<i>Rhacognathus punctatus</i>
<i>Rhaphigaster nebulosa</i> (Poda)	-
<i>Sciocoris cursitans</i> (Fabricius)	<i>Sciocoris terreus</i>
<i>Troilus luridus</i> (Fabricius)	<i>Podisus luridus</i> [Asopus]
<i>Zicrona caerulea</i> (Linnaeus)	<i>Zicrona coerulea</i>

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	<i>Pseudophloeus Fallenii</i> [Falléni]
<i>Arenocoris waltlii</i> (Herrich-Schaeffer)	-
<i>Bathysolen nubilus</i> (Fallén)	<i>Bathysolen nubilus</i> [Pseudophloeus]
<i>Ceraleptus lividus</i> Stein	<i>Ceraleptus lividus</i> [squalidus]
<i>Coreus marginatus</i> (Linnaeus)	<i>Syromastes marginatus</i>
<i>Coriomeris denticulatus</i> (Scopoli)	<i>Dasycoris hirticornis</i> [Coreus]
<i>Enoplops scapha</i> (Fabricius)	<i>Coreus scapha</i> [Enoplops]
<i>Gonocerus acuteangulatus</i> (Goeze)	<i>Gonocerus venator</i>
<i>Leptoglossus occidentalis</i> Heidemann	-
<i>Spathocera dalmanii</i> (Schilling)	<i>Atractus Dalmanii</i> [Spathocera Dalmani]
<i>Syromastus rhombeus</i> (Linnaeus)	<i>Verlusia rhombea</i>

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	<i>Alydus calcaratus</i>
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RHOPALIDAE

<i>Brachycarenum tigrinus</i> (Schilling)	-
<i>Chorosoma schillingii</i> (Schilling)	<i>Chorosoma Schillingi</i>
<i>Corizus hyoscyami</i> (Linnaeus)	<i>Therapha hyoscyami</i> [Hyoscyami]
<i>Liorhyssus hyalinus</i> (Fabricius)	-
<i>Myrmus miriformis</i> (Fallén)	<i>Myrmus miriformis</i>
<i>Rhopalus maculatus</i> (Fieber)	<i>Corizus maculatus</i>
<i>Rhopalus parumpunctatus</i> Schilling	<i>Corizus parumpunctatus</i>
<i>Rhopalus rufus</i> Schilling	-
<i>Rhopalus subrufus</i> (Gmelin)	<i>Corizus capitatus</i>
<i>Stictopleurus abutilon</i> (Rossi)	<i>Corizus abutilon</i> [-]
<i>Stictopleurus punctattonervosus</i> (Goeze)	<i>Corizus crassicornis</i>

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus)	<i>Pyrrhocoris apterus</i>
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STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli)	<i>Stenocephalus agilis</i>
<i>Dicranocephalus albipes</i> (Fabricius)	<i>Stenocephalus neglectus</i>
<i>Dicranocephalus medius</i> (Mulsant & Rey)	-

LYGAEIDAE

<i>Acompus pallipes</i> (Herrich-Schaeffer)	-
<i>Acompus rufipes</i> (Wolff)	<i>Acompus rufipes</i>
<i>Aphanus rolandri</i> (Linnaeus)	<i>Calyptonotus Rolandri</i>
<i>Arocatus longiceps</i> Stål	-
<i>Beosus maritimus</i> (Scopoli)	<i>Dieuches luscus</i>
<i>Chilacis typhae</i> (Perris)	<i>Chilacis Typhae</i>
<i>Cymus aurescens</i> Distant	-
<i>Cymus claviculus</i> (Fallén)	<i>Cymus claviculus</i>
<i>Cymus glandicolor</i> Hahn	<i>Cymus glandicolor</i>
<i>Cymus melanocephalus</i> Fieber	<i>Cymus melanocephalus</i> [-]
<i>Drymus brunneus</i> (R.F. Sahlberg)	<i>Drymus brunneus</i>
<i>Drymus latus</i> Douglas & Scott	-
<i>Drymus pilicornis</i> (Mulsant & Rey)	<i>Drymus pilicornis</i> [<i>Rhyparochromus</i>]
<i>Drymus pilipes</i> Fieber	<i>Drymus pilipes</i>
<i>Drymus pumilio</i> Puton	-
<i>Drymus ryei</i> Douglas & Scott	<i>Drymus sylvaticus</i> var. <i>Ryei</i> [<i>Ryei</i>]
<i>Drymus sylvaticus</i> (Fabricius)	<i>Drymus sylvaticus</i>
<i>Emblethis denticollis</i> Horváth	-
<i>Emblethis griseus</i> (Wolff)	<i>Emblethis verbasco</i> [-]
<i>Eremocoris abietis</i> (Linnaeus)	-
<i>Eremocoris fenestratus</i> (Herrich-Schaeffer)	<i>Eremocoris podagricus</i> [<i>erraticus</i>]
<i>Eremocoris plebejus</i> (Fallén)	<i>Eremocoris plebeius</i> [-]
<i>Eremocoris podagricus</i> (Fabricius)	-
<i>Gastrodes abietum</i> Bergroth	<i>Gastrodes abietis</i> [<i>Abietis</i>]
<i>Gastrodes grossipes</i> (De Geer)	<i>Gastrodes ferrugineus</i>
<i>Graptopeltus lynceus</i> (Fabricius)	<i>Calyptonotus lynceus</i> [-]
<i>Henestaris halophilus</i> (Burmeister)	-
<i>Henestaris laticeps</i> (Curtis)	<i>Henestaris laticeps</i>
<i>Heterogaster artemisiae</i> Schilling	<i>Phygadicus artemisiae</i> [<i>Artemisiae</i>]
<i>Heterogaster urticae</i> (Fabricius)	<i>Phygadicus urticae</i> [<i>Urticae</i>]
<i>Ischnocoris angustulus</i> (Boheman)	<i>Ischnocoris hemipterus</i> [<i>Hypnophilus</i>]
<i>Ischnodemus quadratus</i> Fieber	-
<i>Ischnodemus sabuleti</i> (Fallén)	<i>Ischnodemus sabuleti</i>
<i>Kleidocerys ericae</i> (Horváth)	<i>Ischnorhynchus geminatus</i> [<i>Resedae</i>]
<i>Kleidocerys resedae</i> (Panzer)	<i>Ischnorhynchus Didymus</i> [-]
<i>Lamproplax picea</i> (Flor)	<i>Lamproplax piceus</i> [-]
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	<i>Lasiosomus enervis</i> [-]
<i>Lygaeus equestris</i> (Linnaeus)	-
<i>Lygaeus simulans</i> Deckert	-
<i>Macrodema microptera</i> (Curtis)	<i>Macrodema microptera</i> [<i>Hypnophilus micropterus</i>]
<i>Macroplax preyssleri</i> (Fieber)	-
<i>Megalonotus antennatus</i> (Schilling)	<i>Rhyparochromus antennatus</i>
<i>Megalonotus chiragra</i> (Fabricius)	<i>Rhyparochromus chiragra</i>
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	<i>Rhyparochromus dilatatus</i>
<i>Megalonotus emarginatus</i> (Rey)	-
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	<i>Rhyparochromus praetextatus</i>
<i>Megalonotus sabulicola</i> (Thomson)	<i>Rhyparochromus sabulicola</i> [-]
<i>Metopoplax ditomoides</i> (A. Costa)	-
<i>Metopoplax fuscinervis</i> Stål	-
<i>Notochilus limbatus</i> Fieber	<i>Notochilus limbatus</i> [-]
<i>Nysius cymoides</i> (Spinola)	-
<i>Nysius ericae</i> (Schilling)	-
<i>Nysius graminicola</i> (Kolenati)	-
<i>Nysius helveticus</i> (Herrich-Schaeffer)	<i>Nysius brunneus</i> [-]

LYGAEIDAE (CONTINUED)

<i>Nysius huttoni</i> F.B. White	-
<i>Nysius senecionis</i> (Schilling)	-
<i>Nysius thymi</i> (Wolff)	<i>Nysius thymi</i> [Thymi]
<i>Orsillus depressus</i> (Mulsant & Rey)	-
<i>Ortholomus punctipennis</i> (Herrich-Schaeffer)	-
<i>Pachybrachius fracticollis</i> (Schilling)	<i>Plociomerus fracticollis</i>
<i>Pachybrachius luridus</i> Hahn	<i>Plociomerus luridus</i> [-]
<i>Peritrechus angusticollis</i> (R.F. Sahlberg)	-
<i>Peritrechus convivus</i> (Stål)	<i>Trapezonotus distinguendus</i> [distinctus]
<i>Peritrechus geniculatus</i> (Hahn)	-
<i>Peritrechus gracilicornis</i> Puton	-
<i>Peritrechus lundii</i> (Gmelin)	<i>Peritrechus luniger</i>
<i>Peritrechus nubilus</i> (Fallén)	<i>Peritrechus nubilus</i>
<i>Pionosomus varius</i> (Wolff)	<i>Pionosomus varius</i>
<i>Plinthisus brevipennis</i> (Latreille)	<i>Plinthisus brevipennis</i> + <i>Plinthisus bidentulus</i>
<i>Pterotmetus staphyliniformis</i> (Schilling)	-
<i>Raglius alboacuminatus</i> (Goeze)	<i>Calyptonotus pedestris</i>
<i>Rhyparochromus pini</i> (Linnaeus)	<i>Calyptonotus pini</i> [Pini]
<i>Rhyparochromus vulgaris</i> (Schilling)	-
<i>Scolopostethus affinis</i> (Schilling)	<i>Scolopostethus adjunctus</i>
<i>Scolopostethus decoratus</i> (Hahn)	<i>Scolopostethus ericetorum</i> [affinis]
<i>Scolopostethus grandis</i> Horváth	-
<i>Scolopostethus pictus</i> (Schilling)	<i>Scolopostethus pictus</i>
<i>Scolopostethus puberulus</i> Horváth	-
<i>Scolopostethus thomsoni</i> Reuter	<i>Scolopostethus affinis</i> [-]
<i>Sphragisticus nebulosus</i> (Fallén)	-
<i>Stygnocoris fuliginus</i> (Geoffroy)	<i>Stygnocoris arenarius</i>
<i>Stygnocoris rusticus</i> (Fallén)	<i>Stygnocoris rusticus</i>
<i>Stygnocoris sabulosus</i> (Schilling)	<i>Stygnocoris sabulosus</i>
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	<i>Scolopostethus contractus</i>
<i>Taphropeltus hamulatus</i> (Thomson)	-
<i>Trapezonotus arenarius</i> (Linnaeus)	<i>Trapezonotus agrestis</i>
<i>Trapezonotus desertus</i> Seidenstücker	-
<i>Trapezonotus dispar</i> Stål	<i>Trapezonotus dispar</i> [-]
<i>Trapezonotus ullrichi</i> (Fieber)	-
<i>Tropistethus holosericeus</i> (Scholtz)	<i>Tropistethus holosericeus</i>
<i>Xanthochilus quadratus</i> (Fabricius)	<i>Calyptonotus quadratus</i> [-]

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius)	<i>Berytus clavipes</i>
<i>Berytinus crassipes</i> (Herrich-Schaeffer)	<i>Berytus crassipes</i>
<i>Berytinus hirticornis</i> (Brullé)	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	<i>Berytus minor</i> + <i>Berytinus cognatus</i> [+ <i>Berytus commutatus</i>]
<i>Berytinus montivagus</i> (Meyer-Dür)	<i>Berytus montivagus</i>
<i>Berytinus signoreti</i> (Fieber)	<i>Berytus pygmaeus</i> [Signoreti]
<i>Gampsocoris punctipes</i> (Germar)	<i>Metacanthus punctipes</i>
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	<i>Metatropis rufescens</i>
<i>Neides tipularius</i> (Linnaeus)	<i>Neides tipularius</i> [Tipularius] + <i>Neides parallelus</i> [depressus]

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	<i>Piesma quadrata</i> [Zosmerus quadratus]
<i>Piesma maculatum</i> (Laporte)	<i>Piesma capitata</i> [Zosmerus capitatus] + <i>Piesma Laportei</i> [Zosmerus]

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	<i>Acalypta brunnea</i> [<i>Orthostira concinna</i>]
<i>Acalypta carinata</i> (Panzer)	<i>Acalypta cervina</i> [<i>Orthostira</i>]
<i>Acalypta nigrina</i> (Fallén)	<i>Acalypta nigrina</i> [-]
	+ <i>Acalypta macrophthalma</i> [-]
<i>Acalypta parvula</i> (Fallén)	<i>Acalypta parvula</i> [<i>Orthostira obscura</i>]
<i>Acalypta platycheila</i> (Fieber)	-
<i>Agramma laetum</i> (Fallén)	<i>Serenthia laeta</i> [<i>Agramma</i>]
<i>Campylosteira verna</i> (Fallén)	<i>Campylostira brachycera</i>
	[+ <i>Campylostira verna</i>]
<i>Catoplatus fabricii</i> (Stål)	<i>Monanthia costata</i>
<i>Corythucha ciliata</i> (Say)	-
<i>Derephysia foliacea</i> (Fallén)	<i>Derephysia foliacea</i>
<i>Dictyla convergens</i> (Herrich-Schaeffer)	<i>Monanthia humuli</i> [<i>Humuli</i>]
<i>Dictyonota fuliginosa</i> A. Costa	<i>Dictyonota fuliginosa</i> [-]
<i>Dictyonota strichnocera</i> Fieber	<i>Dictyonota strichnocera</i>
<i>Kalama tricornis</i> (Schränk)	<i>Dictyonota crassicornis</i>
<i>Lasiacantha capucina</i> (Germar)	-
<i>Oncochila simplex</i> (Herrich-Schaeffer)	<i>Monanthia simplex</i>
<i>Physatocheila confinis</i> Horváth	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	<i>Monanthia dumetorum</i>
<i>Physatocheila harwoodi</i> China	-
<i>Physatocheila smreczynskii</i> China	<i>Monanthia quadrimaculata</i>
<i>Stephanitis rhododendri</i> Horváth	-
<i>Stephanitis takeyai</i> Drake & Maa	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	<i>Monanthia ampliata</i>
<i>Tingis angustata</i> (Herrich-Schaeffer)	-
<i>Tingis cardui</i> (Linnaeus)	<i>Monanthia cardui</i>
<i>Tingis reticulata</i> Herrich-Schaeffer	<i>Monanthia reticulata</i>

REDUVIIDAE

<i>Coranus aethiops</i> Jakovlev	-
<i>Coranus subapterus</i> (De Geer)	<i>Coranus subapterus</i>
<i>Coranus woodroffe</i> P.V. Putshkov	-
<i>Empicoris baerensprungi</i> (Dohrn)	-
<i>Empicoris culiciformis</i> (De Geer)	<i>Ploiaria culiciformis</i> [erratica]
<i>Empicoris vagabundus</i> (Linnaeus)	<i>Ploiaria vagabunda</i>
<i>Oncoccephalus pilicornis</i> Reuter	-
<i>Pygolampis bidentata</i> (Goeze)	<i>Pygolampis bidentata</i> [<i>bifurcata</i>]
<i>Reduvius personatus</i> (Linnaeus)	<i>Reduvius personatus</i>

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	<i>Nabis brevipennis</i>
<i>Himacerus boops</i> (Schjødte)	-
<i>Himacerus major</i> (A. Costa)	<i>Nabis major</i> [<i>flavomarginatus</i>]
<i>Himacerus mirmicoides</i> (O. Costa)	<i>Nabis lativentris</i> [<i>apterus</i>]
<i>Nabis brevis</i> Scholtz	-
<i>Nabis ericetorum</i> Scholtz	<i>Nabis ericetorum</i> [-]
<i>Nabis ferus</i> (Linnaeus)	<i>Nabis ferus</i>
<i>Nabis flavomarginatus</i> Scholtz	<i>Nabis flavomarginatus</i> [-]
<i>Nabis limbatus</i> Dahlbom	<i>Nabis limbatus</i>
<i>Nabis lineatus</i> Dahlbom	<i>Nabis Poweri</i> [-]
<i>Nabis pseudoferus</i> Remane	-
<i>Nabis rugosus</i> (Linnaeus)	<i>Nabis rugosus</i> [<i>dorsalis</i>]
<i>Prostemma guttula</i> (Fabricius)	<i>Prostemma guttula</i> [<i>Metastemma</i>]

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	<i>Acompocoris alpinus</i> [-]
<i>Acompocoris pygmaeus</i> (Fallén)	<i>Acompocoris pygmaeus</i> [<i>Temnostethus lucorum</i>]
<i>Anthocoris amplicollis</i> Horváth	-

ANTHOCORIDAE (CONTINUED)

<i>Anthocoris butleri</i> Le Quesne	-
<i>Anthocoris confusus</i> Reuter	-
<i>Anthocoris gallarumulmi</i> (De Geer)	-
<i>Anthocoris limbatus</i> Fieber	-
<i>Anthocoris minki</i> Dohrn	-
<i>Anthocoris nemoralis</i> (Fabricius)	<i>Anthocoris nemoralis</i>
<i>Anthocoris nemorum</i> (Linnaeus)	<i>Anthocoris nemorum</i>
<i>Anthocoris pilosus</i> (Jakovlev)	-
<i>Anthocoris sarothamni</i> Douglas & Scott	<i>Anthocoris nemoralis</i> var. <i>sarothamni</i> [<i>Anthocoris Sarothamni</i>]
<i>Anthocoris simulans</i> Reuter	-
<i>Anthocoris visci</i> Douglas	-
<i>Brachysteles parvicornis</i> (A. Costa)	<i>Brachysteles pilicornis</i>
<i>Buchananiella continua</i> (F.B. White)	-
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	<i>Cardiastethus testaceus</i>
<i>Dufouriellus ater</i> (Dufour)	<i>Xylocoris ater</i>
<i>Elatophilus nigricornis</i> (Zetterstedt)	<i>Temnostethus nigricornis</i> [-]
<i>Lyctocoris campestris</i> (Fabricius)	<i>Lyctocoris campestris</i> [<i>domesticus</i>]
<i>Orius laevigatus</i> (Fieber)	-
<i>Orius laticollis</i> (Reuter)	-
<i>Orius majusculus</i> (Reuter)	-
<i>Orius niger</i> (Wolff)	<i>Triphleps niger</i>
	[+ <i>Triphleps obscurus</i>]
<i>Orius vicinus</i> (Ribaut)	<i>Triphleps minutus</i>
<i>Temnostethus gracilis</i> Horváth	-
<i>Temnostethus pusillus</i> (Herrich-Schaeffer)	<i>Temnostethus pusillus</i>
<i>Temnostethus tibialis</i> Reuter	-
<i>Tetraphleps bicusps</i> (Herrich-Schaeffer)	<i>Tetraphleps vittata</i> [<i>vittatus</i>]
<i>Xylocoridea brevipennis</i> Reuter	-
<i>Xylocoris cursitans</i> (Fallén)	<i>Piezostethus cursitans</i> [<i>rufipennis</i>]
<i>Xylocoris formicetorum</i> (Boheman)	<i>Piezostethus formicetorum</i> [-]
<i>Xylocoris galactinus</i> (Fieber)	<i>Piezostethus galactinus</i>

CIMICIDAE

<i>Cimex columbarius</i> Jenyns	<i>Acanthia columbaria</i> [<i>Columbaria</i>]
<i>Cimex lectularius</i> Linnaeus	<i>Acanthia lectularia</i>
<i>Cimex pipistrelli</i> Jenyns	<i>Acanthia pipistrelli</i> [<i>Pipistrelli</i>]
<i>Oeciacus hirundinis</i> (Lamarck)	<i>Acanthia hirundinis</i> [<i>Hirundinis</i>]

MICROPHYSIDAE

<i>Loricula coleoptrata</i> (Fallén)	<i>Myrmedobia coleoptrata</i>
<i>Loricula distinguenda</i> (Reuter)	-
<i>Loricula elegantula</i> (Baerensprung)	<i>Microphysa elegantula</i> [<i>Zygonotus elegantulus</i>]
<i>Loricula exilis</i> (Fallén)	<i>Myrmedobia tenella</i> [-]
<i>Loricula inconspicua</i> (Douglas & Scott)	<i>Myrmedobia inconspicua</i> [-]
<i>Loricula pselaphiformis</i> Curtis	<i>Microphysa pselaphiformis</i> [<i>Zygonotus</i>]
<i>Loricula ruficeps</i> (Reuter)	-

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	<i>Acetropis Gimmerthalii</i> [<i>seticulosa</i>]
<i>Adelphocoris lineolatus</i> (Goeze)	<i>Calocoris chenopodii</i> [<i>Deraeocoris Chenopodii</i>]
<i>Adelphocoris seticornis</i> (Fabricius)	<i>Calocoris seticornis</i> [<i>Deraeocoris</i>]
<i>Adelphocoris ticinensis</i> (Meyer-Dür)	<i>Calocoris ticinensis</i> [<i>Deraeocoris</i>]
<i>Agnocoris reclairei</i> (Wagner)	-
<i>Alloeotomus gothicus</i> (Fallén)	-
<i>Amblytylus brevicollis</i> Fieber	-
<i>Amblytylus delicatus</i> (Perris)	-
<i>Amblytylus nasutus</i> (Kirschbaum)	<i>Amblytylus affinis</i>
<i>Apolygus limbatus</i> (Fallén)	-
<i>Apolygus lucorum</i> (Meyer-Dür)	<i>Lygus lucorum</i>

MIRIDAE (CONTINUED)

<i>Apolygus spinolae</i> (Meyer-Dür)	<i>Lygus Spinolae</i>
<i>Asciodema obsoleta</i> (Fieber)	<i>Orthotylus Saundersi</i> [<i>Tinicephalus obsoletus</i>]
<i>Atractotomus magnicornis</i> (Fallén)	-
<i>Atractotomus mali</i> (Meyer-Dür)	<i>Atractotomus mali</i> [<i>magnicornis</i>]
<i>Atractotomus parvulus</i> Reuter	-
<i>Blepharidopterus angulatus</i> (Fallén)	<i>Aetorhinus angulatus</i>
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	<i>Orthotylus diaphanus</i> [-]
<i>Bothynotus pilosus</i> (Boheman)	<i>Bothynotus pilosus</i> [-]
<i>Brachyarthrum limitatum</i> Fieber	-
<i>Brachynotocoris puncticornis</i> Reuter	-
<i>Bryocoris pteridis</i> (Fallén)	<i>Bryocoris pteridis</i>
<i>Calocoris alpestris</i> (Meyer-Dür)	<i>Calocoris alpestris</i> [-]
<i>Calocoris roseomaculatus</i> (De Geer)	<i>Calocoris roseomaculatus</i> [<i>Deraeocoris ferrugatus</i>]
<i>Camptozygum aequale</i> (Villers)	<i>Hadrodema pinastri</i> [-]
<i>Campylomma annulicorne</i> (Signoret)	-
<i>Campylomma verbasci</i> (Meyer-Dür)	-
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	<i>Campyloneura virgula</i>
<i>Capsodes flavomarginatus</i> (Donovan)	<i>Lopus mat</i> [<i>miles</i>]
<i>Capsodes gothicus</i> (Linnaeus)	<i>Lopus gothicus</i>
<i>Capsodes sulcatus</i> (Fieber)	<i>Lopus sulcatus</i> [-]
<i>Capsus ater</i> (Linnaeus)	<i>Rhopalotomus ater</i>
<i>Capsus wagneri</i> (Remane)	-
<i>Charagochilus gyllenhalii</i> (Fallén)	<i>Poeciloscytus Gyllenhalii</i> [<i>Charagochilus</i>]
<i>Charagochilus weberi</i> Wagner	-
<i>Chlamydatus evanescens</i> (Boheman)	-
<i>Chlamydatus pulicarius</i> (Fallén)	-
<i>Chlamydatus pullus</i> (Reuter)	<i>Plagiognathus pulicarius</i> [<i>Agalliastes</i>]
<i>Chlamydatus saltitans</i> (Fallén)	<i>Plagiognathus saltitans</i> [<i>Agalliastes</i>]
<i>Chlamydatus wilkinsoni</i> (Douglas & Scott)	<i>Plagiognathus Wilkinsoni</i> [-]
<i>Closterotomus fulvomaculatus</i> (De Geer)	<i>Calocoris fulvomaculatus</i> [<i>Deraeocoris</i>]
<i>Closterotomus norwegicus</i> (Gmelin)	<i>Calocoris bipunctatus</i> [<i>Deraeocoris</i>]
<i>Closterotomus trivialis</i> (A. Costa)	-
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	<i>Psallus salicellus</i>
<i>Conostethus brevis</i> Reuter	-
<i>Conostethus griseus</i> Douglas & Scott	<i>Conostethus salinus</i> [-]
<i>Conostethus roseus</i> (Fallén)	<i>Conostethus roseus</i>
<i>Conostethus venustus</i> (Fieber)	-
<i>Cyllocoris histrionicus</i> (Linnaeus)	<i>Cyllocoris histrionicus</i>
<i>Cyrtorhinus caricis</i> (Fallén)	<i>Chlamydatus caricis</i> [<i>Sphyracephalus elegantulus</i>]
<i>Deraeocoris flavilinea</i> (A. Costa)	-
<i>Deraeocoris lutescens</i> (Schilling)	<i>Camptobrochis lutescens</i> [<i>punctulatus</i>]
<i>Deraeocoris olivaceus</i> (Fabricius)	-
<i>Deraeocoris ruber</i> (Linnaeus)	<i>Capsus lanarius</i> [<i>capillaris</i>]
<i>Deraeocoris scutellaris</i> (Fabricius)	<i>Capsus scutellaris</i>
<i>Dichrooscytus gustavi</i> Josifov	-
<i>Dichrooscytus rufipennis</i> (Fallén)	<i>Dichrooscytus rufipennis</i>
<i>Dicyphus annulatus</i> (Wolff)	<i>Dicyphus annulatus</i> [<i>Idolocoris</i>]
<i>Dicyphus constrictus</i> (Boheman)	-
<i>Dicyphus epilobii</i> Reuter	<i>Dicyphus pallidus</i> [<i>Idolocoris</i>]
<i>Dicyphus errans</i> (Wolff)	<i>Dicyphus errans</i> [<i>Idolocoris</i>]
<i>Dicyphus escalerae</i> Lindberg	-
<i>Dicyphus globulifer</i> (Fallén)	<i>Dicyphus globulifer</i> [<i>Idolocoris</i>]
<i>Dicyphus pallicornis</i> (Fieber)	<i>Dicyphus pallicornis</i> [<i>Idolocoris</i>]
<i>Dicyphus pallidus</i> (Herrich-Schaeffer)	-
<i>Dicyphus stachydis</i> J. Sahlberg	-
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	<i>Globiceps flavonotatus</i>
<i>Europiella artemisiae</i> (Becker)	<i>Plagiognathus albipennis</i> [-]
<i>Europiella decolor</i> (Uhler)	-
<i>Fieberocapsus flaveolus</i> (Reuter)	-

MIRIDAE (CONTINUED)

<i>Globiceps flavomaculatus</i> (Fabricius)	<i>Globiceps flavomaculatus</i> [selectus]
<i>Globiceps fulvicollis</i> Jakovlev	<i>Globiceps fulvipes</i> [flavomaculatus]
<i>Globiceps juniperi</i> Reuter	-
<i>Grypocoris styxi</i> (Wagner)	<i>Calocoris sexguttatus</i> [Deraeocoris]
<i>Hadrodemus m-flavum</i> (Goeze)	<i>Calocoris marginellus</i> [Deraeocoris]
<i>Hallodapus montandoni</i> Reuter	-
<i>Hallodapus rufescens</i> (Burmeister)	<i>Eroticoris rufescens</i>
<i>Halticus apterus</i> (Linnaeus)	<i>Halticus apterus</i> [Halticocoris pallicornis]
<i>Halticus luteicollis</i> (Panzer)	<i>Halticus luteicollis</i> [Halticocoris]
<i>Halticus macrocephalus</i> Fieber	-
<i>Halticus saltator</i> (Geoffroy)	-
<i>Harpocera thoracica</i> (Fallén)	<i>Harpocera thoracica</i>
<i>Heterocordylus genistae</i> (Scopoli)	<i>Heterocordylus unicolor</i>
	[+ <i>Heterocordylus leptocerus</i>]
<i>Heterocordylus tibialis</i> (Hahn)	<i>Heterocordylus tibialis</i>
<i>Heterotoma planicornis</i> (Pallas)	<i>Heterotoma merioptera</i>
<i>Hoplomachus thunbergii</i> (Fallén)	<i>Hoplomachus Thunbergi</i> [Thunbergii]
<i>Hypseloecus visci</i> (Puton)	-
<i>Leptopterna dolabrata</i> (Linnaeus)	<i>Leptopterna dolabrata</i> [Lopomorphus dolabratus]
<i>Leptopterna ferrugata</i> (Fallén)	<i>Leptopterna ferrugata</i> [Lopomorphus ferrugatus]
	[+ <i>Lopomorphus carinatus</i>]
<i>Liocoris tripustulatus</i> (Fabricius)	<i>Liocoris 3-pustulatus</i> [tripustulatus]
<i>Lopus decolor</i> (Fallén)	<i>Oncotylus decolor</i>
<i>Lygocoris pabulinus</i> (Linnaeus)	<i>Lygus pabulinus</i>
<i>Lygocoris rugicollis</i> (Fallén)	<i>Plesiocoris rugicollis</i> [-]
<i>Lygus maritimus</i> Wagner	-
<i>Lygus pratensis</i> (Linnaeus)	<i>Lygus pratensis</i>
	[+ <i>Lygus campestris</i>]
<i>Lygus punctatus</i> (Zetterstedt)	-
<i>Lygus rugulipennis</i> Poppius	-
<i>Lygus wagneri</i> Remane	-
<i>Macrolophus pygmaeus</i> (Rambur)	<i>Macrolophus nubilus</i>
<i>Macrolophus rubi</i> Woodroffe	-
<i>Macrotylus horvathi</i> (Reuter)	-
<i>Macrotylus paykullii</i> (Fallén)	<i>Macrocoleus Paykullii</i> [paykullii]
<i>Macrotylus solitarius</i> (Meyer-Dür)	<i>Macrocoleus solitarius</i> [-]
<i>Malacocoris chlorizans</i> (Panzer)	<i>Malacocoris chlorizans</i>
<i>Mecomma ambulans</i> (Fallén)	<i>Chlamydatus ambulans</i> [Sphyracephalus ambulans]
<i>Mecomma dispar</i> (Boheman)	<i>Globiceps dispar</i> [-]
	+ <i>Globiceps ater</i> [-]
<i>Megacoelum beckeri</i> (Fieber)	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	<i>Calocoris infusus</i> [Deraeocoris]
<i>Megaloceroea recticornis</i> (Geoffroy)	<i>Megaloceroea longicornis</i> [Miris]
<i>Megalocoleus molliculus</i> (Fallén)	<i>Macrocoleus molliculus</i>
<i>Megalocoleus tanaceti</i> (Fallén)	<i>Macrocoleus tanaceti</i> [Oncotylus pilosus]
<i>Miridius quadrivirgatus</i> (A. Costa)	<i>Miridius quadrivirgatus</i>
<i>Miris striatus</i> (Linnaeus)	<i>Calocoris striatus</i> [Deraeocoris]
<i>Monalocoris filicis</i> (Linnaeus)	<i>Monalocoris filicis</i>
<i>Monosynamma bohemanni</i> (Fallén)	<i>Plagiognathus Bohemanni</i> [Neocoris Bohemanni]
	+ <i>Plagiognathus nigrilulus</i> [Neocoris Scotti]
<i>Monosynamma maritimum</i> (Wagner)	-
<i>Monosynamma sabulicola</i> (Wagner)	-
<i>Myrmecoris gracilis</i> (R.F. Sahlberg)	-
<i>Neolygus contaminatus</i> (Fallén)	<i>Lygus contaminatus</i> [Lygus sulcifrons]
<i>Neolygus populi</i> (Leston)	-
<i>Neolygus viridis</i> (Fallén)	<i>Lygus viridis</i> [contaminatus]
<i>Notostira elongata</i> (Geoffroy)	-
<i>Notostira erratica</i> (Linnaeus)	<i>Megaloceroea erratica</i> [Miris erraticus]
<i>Oncotylus viridiflavus</i> (Goeze)	<i>Anotherops sutulosus</i> [Anoterops]

MIRIDAE (CONTINUED)

<i>Orthocephalus coriaceus</i> (Fabricius)	<i>Orthocephalus coriaceus</i> [mutabilis]
<i>Orthocephalus saltator</i> (Hahn)	<i>Orthocephalus saltator</i>
<i>Orthonotus rufifrons</i> (Fallén)	<i>Byrsoptera rufifrons</i> [caricis]
<i>Orthops basalıs</i> (A. Costa)	-
<i>Orthops campestris</i> (Linnaeus)	<i>Lygus pastinacae</i> [Orthops]
<i>Orthops kalmii</i> (Linnaeus)	<i>Lygus Kalmii</i> [Orthops]
<i>Orthotylus adenocarpi</i> (Perris)	<i>Orthotylus Douglassi</i> [-]
<i>Orthotylus bilineatus</i> (Fallén)	<i>Orthotylus bilineatus</i> [-]
<i>Orthotylus caprai</i> Wagner	-
<i>Orthotylus concolor</i> (Kirschbaum)	<i>Orthotylus concolor</i> [Litosoma]
<i>Orthotylus ericetorum</i> (Fallén)	<i>Orthotylus ericetorum</i> [Litosoma]
<i>Orthotylus flavinervis</i> (Kirschbaum)	<i>Orthotylus flavinervis</i> [Litosoma]
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	<i>Orthotylus flavosparsus</i> [Litosoma]
	[+Litosoma prasinus]
<i>Orthotylus fuscescens</i> (Kirschbaum)	-
<i>Orthotylus junipericola</i> Linnavuori	-
<i>Orthotylus marginalis</i> Reuter	<i>Orthotylus nassatus</i> [Litosoma]
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	<i>Orthotylus rubidus</i> var. <i>Moncreaffi</i> [-]
<i>Orthotylus nassatus</i> (Fabricius)	<i>Orthotylus striicornis</i> [Litosoma striicornis]
<i>Orthotylus ochrotrichus</i> Fieber	[Litosoma ochrotrichus]
<i>Orthotylus prasinus</i> (Fallén)	<i>Orthotylus prasinus</i> [Litosoma viridinervis]
<i>Orthotylus rubidus</i> (Puton)	<i>Orthotylus rubidus</i> [-]
<i>Orthotylus tenellus</i> (Fallén)	<i>Orthotylus tenellus</i> [Litosoma angustus]
<i>Orthotylus virens</i> (Fallén)	-
<i>Orthotylus virescens</i> (Douglas & Scott)	[Litosoma virescens]
<i>Orthotylus viridinervis</i> (Kirschbaum)	-
<i>Pachytomella parallela</i> (Meyer-Dür)	-
<i>Pantilius tunicatus</i> (Fabricius)	<i>Pantilius tunicatus</i>
<i>Parapsallus vitellinus</i> (Scholtz)	-
<i>Phoenicocoris obscurellus</i> (Fallén)	<i>Psallus obscurellus</i> [Atractotomus Pini]
<i>Phylus coryli</i> (Linnaeus)	<i>Phylus coryli</i>
	+ <i>Phylus avellanae</i>
<i>Phylus melanocephalus</i> (Linnaeus)	<i>Phylus melanocephalus</i>
	+ <i>Phylus palliceps</i>
<i>Phytocoris dimidiatus</i> Kirschbaum	<i>Phytocoris populi</i> [dubius]
<i>Phytocoris insignis</i> Reuter	-
<i>Phytocoris longipennis</i> Flor	<i>Phytocoris longipennis</i> [dimidiatus]
<i>Phytocoris pini</i> Kirschbaum	<i>Phytocoris pini</i> [-]
<i>Phytocoris populi</i> (Linnaeus)	[Phytocoris distinctus]
<i>Phytocoris reuteri</i> Saunders	<i>Phytocoris Reuteri</i> [crassipes]
<i>Phytocoris tiliae</i> (Fabricius)	<i>Phytocoris tiliae</i>
<i>Phytocoris ulmi</i> (Linnaeus)	<i>Phytocoris ulmi</i> [divergens]
<i>Phytocoris varipes</i> Boheman	<i>Phytocoris varipes</i> [Ulmi]
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	<i>Pilophorus bifasciatus</i> [Camaronotus cinnamopterus]
<i>Pilophorus clavatus</i> (Linnaeus)	<i>Pilophorus clavatus</i> [Camaronotus]
<i>Pilophorus confusus</i> (Kirschbaum)	-
<i>Pilophorus perplexus</i> Douglas & Scott	-
<i>Pinalitus atomarius</i> (Meyer-Dür)	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	<i>Lygus cervinus</i> [Orthops]
<i>Pinalitus rubricatus</i> (Fallén)	<i>Lygus rubricatus</i>
<i>Pinalitus viscidola</i> (Puton)	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	<i>Pithanus Märkeli</i>
<i>Placochilus seladonicus</i> (Fallén)	-
<i>Plagiognathus arbustorum</i> (Fabricius)	<i>Plagiognathus arbustorum</i>
<i>Plagiognathus chrysanthemi</i> (Wolff)	<i>Plagiognathus viridulus</i>
<i>Platycranus bicolor</i> (Douglas & Scott)	<i>Orthotylus chloropterus</i> [Litosoma chloropterus]
<i>Plesiodema pinetella</i> (Zetterstedt)	<i>Plesiodema pinetellum</i> [-]
<i>Polymerus nigrata</i> (Fallén)	<i>Poeciloscytus nigratus</i> [Systratiotus]
<i>Polymerus palustris</i> (Reuter)	-

MIRIDAE (CONTINUED)

<i>Polymerus unifasciatus</i> (Fabricius)	<i>Poeciloscytus unifasciatus</i>
<i>Polymerus vulneratus</i> (Panzer)	-
<i>Psallodema fieberi</i> (Fieber)	<i>Psallus Fieberi</i>
<i>Psallus albicinctus</i> (Kirschbaum)	-
<i>Psallus ambiguus</i> (Fallén)	<i>Psallus ambiguus</i> [<i>Apocremnus obscurus</i>]
<i>Psallus assimilis</i> Stichel	<i>Psallus simillimus</i> [<i>Apocremnus</i>]
<i>Psallus betuleti</i> (Fallén)	<i>Psallus betuleti</i> [<i>Apocremnus ambiguus</i>]
<i>Psallus confusus</i> Rieger	<i>Psallus diminutus</i> [-]
<i>Psallus falleni</i> Reuter	<i>Psallus roseus</i> [<i>salicis</i>]
<i>Psallus flavellus</i> Stichel	<i>Psallus Kirschbaumi</i> [<i>roseus</i>]
<i>Psallus haematodes</i> (Gmelin)	<i>Psallus sanguineus</i>
	[+ <i>Psallus Querceti</i>]
	[+ <i>Psallus dilutus</i>]
	<i>Psallus lepidus</i>
<i>Psallus lepidus</i> Fieber	-
<i>Psallus luridus</i> Reuter	-
<i>Psallus mollis</i> (Mulsant & Rey)	-
<i>Psallus montanus</i> Josifov	-
<i>Psallus perrisi</i> (Mulsant & Rey)	-
<i>Psallus pseudoplatani</i> Reichling	-
<i>Psallus quercus</i> (Kirschbaum)	<i>Psallus quercus</i> [<i>Apocremnus Quercus</i>]
<i>Psallus salicis</i> (Kirschbaum)	<i>Psallus alnicola</i> [<i>Alni</i>]
<i>Psallus variabilis</i> (Fallén)	<i>Psallus variabilis</i> [<i>Apocremnus</i>]
<i>Psallus varians</i> (Herrich-Schaeffer)	<i>Psallus varians</i>
	[+ <i>Psallus distinctus</i>]
<i>Psallus wagneri</i> Ossiannilsson	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	<i>Loxops coccineus</i> [-]
<i>Reuteria marqueti</i> Puton	-
<i>Rhabdomiris striatellus</i> (Fabricius)	<i>Calocoris striatellus</i> [<i>Deraeocoris</i>]
	[+ <i>Deraeocoris fornicatus</i>]
<i>Salicarus roseri</i> (Herrich-Schaeffer)	<i>Plagiognathus Roseri</i> [-]
<i>Stenodema calcarata</i> (Fallén)	<i>Miris calcaratus</i>
<i>Stenodema holsata</i> (Fabricius)	<i>Miris holsatus</i>
<i>Stenodema laevigata</i> (Linnaeus)	<i>Miris laevigatus</i>
<i>Stenodema trispinosa</i> Reuter	-
<i>Stenotus binotatus</i> (Fabricius)	<i>Oncognathus binotatus</i> [<i>Deraeocoris</i>]
<i>Sthenarus rotermundi</i> (Scholtz)	<i>Psallus Roterundi</i> [<i>Sthenarus</i>]
<i>Strongylocoris leucocephalus</i> (Linnaeus)	<i>Stiphrosoma leucocephalum</i> [<i>leucocephala</i>]
<i>Strongylocoris luridus</i> (Fallén)	<i>Stiphrosoma luridum</i> [-]
<i>Systellonotus triguttatus</i> (Linnaeus)	<i>Systellonotus triguttatus</i>
<i>Teratocoris antennatus</i> (Boheman)	<i>Teratocoris antennatus</i> [-]
<i>Teratocoris caricis</i> Kirkaldy	-
<i>Teratocoris saundersi</i> Douglas & Scott	<i>Teratocoris Saundersi</i> [-]
<i>Teratocoris viridis</i> Douglas & Scott	<i>Teratocoris viridis</i> [-]
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	<i>Macrocoleus hortulanus</i> [<i>Oncotylus tanaceti</i>]
<i>Trigonotylus caelestialium</i> (Kirkaldy)	-
<i>Trigonotylus psammaecolor</i> Reuter	-
<i>Trigonotylus ruficornis</i> (Geoffroy)	<i>Megaloceraea ruficornis</i> [<i>Miris</i>]
<i>Tropidosteptes pacificus</i> (Van Duzee)	-
<i>Tupiocoris rhododendri</i> (Dolling)	-
<i>Tuponia brevirostris</i> Reuter	-
<i>Tuponia mixticolor</i> (A. Costa)	-
<i>Tytthus pubescens</i> (Knight)	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	<i>Chlamydatius insignis</i> [-]
<i>Zygimus nigriceps</i> (Fallén)	-

CERATOCOMBIDAE

<i>Ceratocombus coleoptratus</i> (Zetterstedt)	<i>Ceratocombus coleoptratus</i> [<i>muscorum</i>]
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DIPSOCORIDAE

Cryptostemma alienum Herrich-Schaeffer
Pachycoleus waltli Fieber

Cryptostemma alienum [*Dipsocoris*]
 -

SALDIDAE

Chartoscirta cincta (Herrich-Schaeffer)
Chartoscirta cocksii (Curtis)
Chartoscirta elegantula (Fallén)
Chiloxanthus pilosus (Fallén)
Halosalda lateralis (Fallén)

Salda cincta
Salda Cocksii [*elegantula*]
Salda elegantula [-]
Salda pilosa
Salda lateralis
 [+*Salda pulchella*]

Macrosaldula scotica (Curtis)
Micracanthia marginalis (Fallén)
Salda littoralis (Linnaeus)
Salda morio Zetterstedt
Salda muelleri (Gmelin)
Saldula arenicola (Scholtz)
Saldula c-album (Fieber)
Saldula connemarae Walton
Saldula fucicola (J. Sahlberg)
Saldula melanoscela (Fieber)
Saldula opacula (Zetterstedt)
Saldula orthochila (Fieber)
Saldula pallipes (Fabricius)
Saldula palustris (Douglas)
Saldula pilosella (Thomson)
Saldula saltatoria (Linnaeus)
Saldula setulosa (Puton)
Teloleuca pellucens (Fabricius)

Salda scotica [*riparia*]
Salda marginalis
Salda littoralis
Salda morio [-]
 -
Salda arenicola [-]
Salda C-album [*stellata*]
 -
 -
 -
Salda opacula [-]
Salda orthochila
Salda pallipes
 -
Salda pilosella [-]
Salda saltatoria
 -
Salda conspicua [-]

AEOPHILIDAE

Aepophilus bonnairei Signoret

-

MESOVELIIDAE

Mesovelgia furcata Mulsant & Rey

Mesovelgia furcata [-]

HEBRIDAE

Hebrus pusillus (Fallén)
Hebrus ruficeps Thomson

Hebrus pusillus
 -

HYDROMETRIDAE

Hydrometra gracilentia Horváth
Hydrometra stagnorum (Linnaeus)

-
Hydrometra stagnorum [*Limnobates*]

VELIIDAE

Microvelia buenoi Drake
Microvelia pygmaea (Dufour)
Microvelia reticulata (Burmeister)
Velia caprai Tamanini
Velia saulii Tamanini

-
Microvelia pygmaea
 -
Velia currens
 -

GERRIDAE

Aquarius najas (De Geer)
Aquarius paludum (Fabricius)
Gerris argentatus Schummel
Gerris costae (Herrich-Schaeffer)
Gerris gibbifer Schummel
Gerris lacustris (Linnaeus)
Gerris lateralis Schummel
Gerris odontogaster (Zetterstedt)

Gerris Najas [*Hydrometra najas*]
Gerris paludum [*Hydrometra*]
Gerris argentata [*Hydrometra*]
Gerris costae [-]
Gerris gibbifera [*Hydrometra*]
Gerris lacustris [*Hydrometra*]
Gerris aspera [-]
Gerris odontogaster [-]

GERRIDAE (CONTINUED)

Gerris thoracicus Schummel
Limnopus rufoscutellatus (Latreille)

Gerris thoracica [Hydrometra]
Gerris rufoscutellata [-]

NEPIDAE

Nepa cinerea Linnaeus
Ranatra linearis (Linnaeus)

Nepa cinerea
Ranatra linearis

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus)
Naucoris maculatus Fabricius

Naucoris cimicoides
 -

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius)

Aphelocheirus aestivalis

NOTONECTIDAE

Notonecta glauca Linnaeus
Notonecta maculata Fabricius
Notonecta obliqua Thunberg
Notonecta viridis Delcourt

Notonecta glauca
Notonecta glauca var. *maculata* [*Notonecta maculata*]
 [*Notonecta glauca* var. *furcata*]
 -

PLEIDAE

Plea minutissima Leach

Plea minutissima

CORIXIDAE

Arctocorisa carinata (C.R. Sahlberg)
Arctocorisa germari (Fieber)
Callicorixa praeusta (Fieber)

Callicorixa wollastoni (Douglas & Scott)

Corixa affinis Leach
Corixa dentipes Thomson
Corixa iberica Jansson
Corixa panzeri Fieber
Corixa punctata (Illiger)
Cymatia bondsdorffii (C.R. Sahlberg)
Cymatia coleoptrata (Fabricius)
Cymatia rogenhoferi (Fieber)
Glaenocorisa cavifrons (Thomson)
Glaenocorisa propinqua (Fieber)
Hesperocorixa castanea (Thomson)
Hesperocorixa linnaei (Fieber)
Hesperocorixa moesta (Fieber)
Hesperocorixa sahlbergi (Fieber)
Micronecta griseola Horváth
Micronecta minutissima (Linnaeus)
Micronecta poweri (Douglas & Scott)
Micronecta scholtzi (Fieber)
Paracorixa concinna (Fieber)
Sigara distincta (Fieber)

Sigara dorsalis (Leach)
Sigara falleni (Fieber)
Sigara fallenoidea (Hungerford)
Sigara fossarum (Leach)
Sigara iactans Jansson
Sigara lateralis (Leach)

Corixa carinata [-]
Corixa variegata [-]
Corixa praeusta [-]
 +*Corixa sodalis* [-]
 +*Corixa Boldii* [-]
Corixa Wollastoni
 +*Corixa cognata* [-]
Corixa affinis
 -
 -
Corixa Panzeri
Corixa Geoffroyi
Cymatia Bondsdorffii
Cymatia coleoptrata
 -
Corixa cavifrons [-]
 -
 -
Corixa Linnaei [Linnéi]
Corixa moesta
Corixa Sahlbergi
 -
Sigara minutissima
 -
Sigara Scholtzii [-]
Corixa concinna
Corixa distincta
 + *Corixa vernicosa* [-]
 [+ *Corixa Douglassi*]
 -
Corixa Fallénii [Falléni]
 -
Corixa fossarum
 -
Corixa hieroglyphica

CORIXIDAE (CONTINUED)

<i>Sigara limitata</i> (Fieber)	<i>Corixa limitata</i> [-]
<i>Sigara longipalis</i> (J. Sahlberg)	-
<i>Sigara nigrolineata</i> (Fieber)	<i>Corixa Fabricii</i> [<i>nigrolineata</i>]
<i>Sigara scotti</i> (Douglas & Scott)	<i>Corixa Scotti</i> [-]
<i>Sigara selecta</i> (Fieber)	<i>Corixa Ståli</i>
<i>Sigara semistriata</i> (Fieber)	<i>Corixa semistriata</i>
<i>Sigara stagnalis</i> (Leach)	<i>Corixa lugubris</i>
<i>Sigara striata</i> (Linnaeus)	<i>Corixa striata</i>
<i>Sigara venusta</i> (Douglas & Scott)	<i>Corixa venusta</i> [-]

N.B. The name *Rhyparochromus dimidiatus* (Lygaeidae) of Douglas & Scott (1865) is not included in the above list as I have not been able to find the modern name to which it corresponds.

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AN ANNOTATED CHECKLIST OF THE AMBIGUOUS SPECIES NAMES OF HEMIPTERA-HETEROPTERA FROM DOUGLAS & SCOTT (1865) TO SAUNDERS (1892)

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This article is a prequel to Ryan (2015, 2016 & 2018), which listed the ambiguous species names of the British Hemiptera-Heteroptera following Saunders (1892a). The present article lists the additional ambiguous species names that arose in the period prior to the publication of this work, and after Douglas & Scott (1865), and thereby assists in the interpretation of records published at this time. As stated previously, the significance of ambiguous species names is that once it is discovered that two distinct species have been recorded under the same name, all previous records must be discounted, unless they are supported by authenticated specimens.

The first decade of this period was a time of considerable change in the British list presented in Douglas & Scott (1865). Many additions and corrections to this work were published, not least by the authors themselves, and some form of stability did not exist until the Synopsis of Saunders (1875a, 1875b & 1876). Many of the ambiguities described below therefore relate only to the decade immediately following Douglas & Scott (1865). These are marked with ‘*’.

PENTATOMIDAE

Pentatoma baccharum

The *Pentatoma baccharum* of the Synopsis did not refer to the *Dolycoris baccharum* (Linnaeus) of today, but to *Carpocoris purpureipennis* (De Geer) or *Carpocoris mediterraneus* Tamanini. However, since the latter are rarely encountered, the degree of confusion is likely to be very small. Douglas & Scott (1865) did not include the ambiguity.

*Piezodorus purpureipennis**

The use of this name in Douglas & Scott (1865) does not refer to the *Carpocoris purpureipennis* (De Geer) of today, but to *Piezodorus lituratus* (Fabricius), a common species. The real *C. purpureipennis* goes by the name *Pentatoma nigricorne*, and is a rare species. This confusion does not occur in the Synopsis.

*Strachia ornata**

The use of this name in Douglas & Scott (1865) does not refer to the *Eurydema ornata* (Linnaeus) of today, but to *Eurydema dominulus* (Scopoli), a common species. The real *E. ornata* is not described, and today has a very restricted distribution. This confusion does not occur in the Synopsis.

LYGAEIDAE

Cymus species*

The common *Cymus melanocephalus* Fieber was first reported as British by Saunders (1874). Prior records of this bug may have been recorded as *Cymus clavicularis* (Fallén) or *Cymus glandicolor* Hahn. This confusion does not occur in the Synopsis.

Henestaris laticeps

Henestaris halophilus (Burmeister) was not separated from *Henestaris laticeps* (Curtis) until Saunders (1891), and the former was found in collections standing over the name of the latter. However, the former is much less frequently encountered than the latter, and the degree of confusion is likely to be small.

*Ischnorhynchus Resedae**

The use of this name in Douglas & Scott (1865) does not refer to the *Kleidocerys resedae* (Panzer) of today, but to *Kleidocerys ericae* (Horváth), both common species. The real *K. resedae* was not described. This confusion was promptly corrected in Douglas & Scott (1866), so the degree of confusion is likely to be small.

Peritrechus nubilus

Peritrechus geniculatus (Hahn) was not recognised as British until Douglas (1875 & 1879), and had previously been confused with *Peritrechus nubilus* (Fallén). Since the former species is much more frequently encountered than the latter, many earlier records for the above name presumably refer to the former species.

*Plociomerus fracticollis**

Pachybrachius luridus Hahn was first reported as British by Saunders (1870), as *Plociomerus luridus*. The bug is much less frequently encountered than *Pachybrachius fracticollis* (Schilling) (*Plociomerus fracticollis* of Douglas & Scott (1865)), so the degree of confusion is likely to be small.

Scolopostethus species

The three common members of this genus, *Scolopostethus affinis* (Schilling), *Scolopostethus decoratus* (Hahn) and *Scolopostethus thomsoni* Reuter, were confused prior to Horváth (1891). *Scolopostethus grandis* Horváth was first mentioned as British at this time, and *Scolopostethus puberulus* Horváth in Saunders (1892a). Only the distinct *Scolopostethus pictus* (Schilling) is likely to have escaped confusion previously.

NABIDAE

Nabis species*

The *Nabis apterus* and *Nabis flavomarginatus* of Douglas & Scott (1865) are not the *Himacerus apterus* (Fabricius) and *Nabis flavomarginatus* Scholtz of today, but refer to *Himacerus mirmicoides* (O. Costa) and *Himacerus major* (A. Costa), respectively, all frequently encountered species. Furthermore, *Nabis ericetorum* Scholtz and *Nabis lineatus* Dahlbom are absent from Douglas & Scott (1865), but they are much less common than their similar congeners, *Nabis rugosus* (Linnaeus) and *Nabis limbatus* Dahlbom, respectively, so the degree of confusion here is likely to be small. These ambiguities do not occur in the Synopsis.

ANTHOCORIDAE

*Acompocoris pygmaeus**

Acompocoris alpinus Reuter is absent in Douglas & Scott (1865), so some records for *Acompocoris pygmaeus* (Fallén) at this time may refer to it. Both species are widely distributed. This confusion does not occur in the Synopsis.

Anthocoris nemoralis

The common *Anthocoris confusus* Reuter was not recognised as British until Edwards (1890), so many earlier records for the common *Anthocoris nemoralis* (Fabricius) are likely to refer to this species.

MICROPHYSIDAE

Myrmedobia species

Myrmedobia distinguenda (*Loricula distinguenda* (Reuter) of today) was not recognised as British until Saunders (1892a & 1892b), and any previous encounters were likely to have been referred to *M. coleoprata* (*Loricula coleoprata* (Fallén)) (males only) or *M. tenella* (*Loricula exilis* (Fallén)) (both sexes). *M. inconspicua* (*Loricula inconspicua* (Douglas & Scott)) was added in Douglas & Scott (1871), as *Pseudophleps inconspicuus*, but given that it is restricted to coastal situations, it is unlikely to be the subject of significant prior confusion with its congeners. Before the Synopsis there is the possibility of greater confusion, since of the above names only *M. coleoprata* appears in Douglas & Scott (1865).

MIRIDAE

*Apocremnus ambiguus**

The use of this name in Douglas & Scott (1865) does not refer to the *Psallus ambiguus* (Fallén) of today, but to *Psallus betuleti* (Fallén) and *Psallus montanus* Josifov. The real *P. ambiguus* goes by the name *A. obscurus*. These species are frequently encountered. This confusion does not occur in the Synopsis.

Atractotomus species

The *Atractotomus magnicornis* (Fallén) described in Douglas & Scott (1865) is really *Atractotomus mali* (Meyer-Dür). This was corrected in Douglas & Scott (1869), but the real *A. magnicornis* was not recognised as British until Saunders (1879), and would have been recorded as *A. mali* prior to this time. Hence, both names are likely to have been the subject of ambiguity, both species having been referred to by the wrong name at one time or another.

Camaronotus cinnamomopterus and *Pilophorus bifasciatus*

The common *Pilophorus perplexus* Douglas & Scott was not recognised as British until Reuter (1878), and many of the records for *C. cinnamomopterus* of Douglas & Scott (1865) and *P. bifasciatus* of the Synopsis are therefore likely to refer to this species.

Conostethus salinus

Conostethus brevis Reuter was first reported as British in Reuter (1877), and the above name went for both species prior to this time. However, *C. brevis* is much less frequently encountered than *C. salinus* (*Conostethus griseus* Douglas & Scott of today), and the degree of confusion is probably small. Neither species is mentioned in Douglas & Scott (1865).

Dicyphus pallidus and *Dicyphus errans*

The *Dicyphus pallidus* of Douglas & Scott (1865) and the Synopsis is not the *Dicyphus pallidus* (Herrich-Schaeffer) of today but *Dicyphus epilobii* Reuter (Reuter, 1883). *Dicyphus constrictus* (Boheman) and *Dicyphus stachydis* J. Sahlberg were not recognised as British until Reuter (1883), and earlier records were probably assigned to *Dicyphus errans* (Wolff), given the shared host plant of Hedge Woundwort, *Stachys sylvatica* L. (Lamiaceae).

*Globiceps flavomaculatus**

The use of this name in Douglas & Scott (1865) does not refer to the *Globiceps flavomaculatus* (Fabricius) of today, but to *Globiceps fulvicollis* Jakovlev, both of which are widely distributed. The real *G. flavomaculatus* goes by the name *G. selectus* in Douglas & Scott (1865). This confusion does not occur in the Synopsis.

*Lygus contaminatus**

The use of this name in Douglas & Scott (1865) does not refer to the *Neolygus contaminatus* (Fallén) of today, but to *Neolygus viridis* (Fallén). The real *N. contaminatus* goes by the name *Lygus sulcifrons*. Both species are frequently encountered. This confusion does not occur in the Synopsis.

*Oncotylus tanacetii**

The use of this name in Douglas & Scott (1865) does not refer to the *Megalocoleus tanacetii* (Fallén) of today, but to *Tinicephalus hortulanus* (Meyer-Dür). The real *M. tanacetii* goes by the name *Oncotylus pilosus*. Both species are frequently encountered, but occur on different host plants. This confusion does not occur in the Synopsis.

Orthotylus species

There is a lot of confusion here. The orthotylinines of elm (*Orthotylus ochrotrichus* Fieber, *Orthotylus prasinus* (Fallén) and *Orthotylus viridinervis* (Kirschbaum)) and broom (*Orthotylus adenocarpi* (Perris), *Orthotylus concolor* (Kirschbaum) and *Orthotylus virescens* (Douglas & Scott)) are likely to have been confused on these hosts. The Synopsis did not include *O. viridinervis*, *O. ochrotrichus* and *O. virescens*, creating uncertainty as to which name would have been given to these species. Douglas & Scott (1865) included five of the six names (all except for *O. adenocarpi*), assigned to the genus *Litosoma*, but, according to the Synopsis and Saunders (1892a), *L. prasinus* referred to *Orthotylus flavosparsus* (C.R. Sahlberg) and *L. viridinervis* to *O. prasinus*. Furthermore, the *L. nassatus* of Douglas & Scott (1865) and *O. nassatus* of the Synopsis are not the *Orthotylus nassatus* (Fabricius) of today, but refer to *Orthotylus marginalis* Reuter, which situation was not corrected until Saunders (1892a). The *O. chloropterus* of Saunders (1892a) refers to *O. virescens*, but referred to *Platycranus bicolor* (Douglas & Scott) in Douglas & Scott (1865) and the Synopsis. The name *O. virescens* is absent from the Synopsis, but *L. virescens* is present in Douglas & Scott (1865).

Phytocoris species

In the Synopsis the name *Phytocoris populi* does not refer to the *Phytocoris populi* (Linnaeus) of today, but to *Phytocoris dimidiatus* Kirschbaum. Douglas & Scott (1865) did not include this ambiguity, referring to the two species with the separate names *P. distinctus* and *P. dubius*,

respectively, but the *P. dimidiatus* of Douglas & Scott (1865) is really *Phytocoris longipennis* Flor. Furthermore, the *P. ulmi* of Douglas & Scott (1865) is actually the *Phytocoris varipes* Boheman of today. The *Phytocoris ulmi* (Linnaeus) of today goes by the name *P. divergens*.

*Psallus roseus**

The use of this name in Douglas & Scott (1865) does not refer to the *Psallus roseus* of the Synopsis (*Psallus falleni* Reuter of today) but to *P. Kirschbaumi* (*Psallus flavellus* Stichel of today), both widely distributed species. The real *P. falleni* goes by the name *P. salicis*.

*Psallus salicis**

The use of this name in Douglas & Scott (1865) does not refer to the species known as *Psallus salicis* (Kirschbaum) today but to *Psallus falleni* Reuter, as mentioned above. The real *P. salicis* was known as *P. Alni*. This confusion does not occur in the Synopsis.

*Psallus varians**

The *Psallus diminutus* of the Synopsis (*Psallus confusus* Rieger and *Psallus mollis* (Mulsant & Rey) of today) is absent from Douglas & Scott (1865), and these species are therefore likely to have been recorded as *P. varians*, given that they all commonly occur on the same host plant, oak, *Quercus* spp. (Fagaceae).

SALDIDAE

*Salda elegantula**

The use of this name in Douglas & Scott (1865) does not refer to the *Chartoscirta elegantula* (Fallén) of today, but to *Chartoscirta cocksii* (Curtis). The real *C. elegantula* is absent from Douglas & Scott (1865). Both of these widely distributed species would therefore have been recorded under the above name prior to the Synopsis, which did not include the confusion.

*Salda riparia**

The use of this name in Douglas & Scott (1865) does not refer to the *S. riparia* of Saunders (1892a) (*Teloleuca pellucens* (Fabricius) of today), but to *S. scotica* (*Macrosaldula scotica* (Curtis) of today). The real *T. pellucens* (*S. conspicua* of the Synopsis) is absent from Douglas & Scott (1865).

HEBRIDAE

Hebrus pusillus

Hebrus ruficeps Thomson was first reported as British by Reuter (1877), and the above name went for both species prior to this time. The new species is the commoner of the two, and the above name could refer to either species.

GERRIDAE

Gerris species*

The *G. aspera*, *G. costae* and *G. odontogaster* of the Synopsis are absent from Douglas & Scott (1865). The last two omissions were promptly reported by Douglas (1866), but *G. aspera* was not reported as British until Douglas (1876) and the Synopsis. Consequently, records for these species may have gone by the names of their congeners prior to the Synopsis.

CORIXIDAE

Corixa species*

There are many absentees from the list of corixids presented in Douglas & Scott (1865), compared with that of the Synopsis, a number of which are widespread and may have been recorded under the names of congeners that are included in the list. Records for the absentee *Callicorixa praeusta* (Fieber) are likely to have been assigned to *Callicorixa wollastoni* (Douglas & Scott) (*Corixa Wollastoni* of Douglas & Scott (1865)), until the former's addition by Douglas (1866). *Sigara limitata* (Fieber), *Sigara scotti* (Douglas & Scott) and *Sigara venusta* (Douglas & Scott) were first reported as British by Douglas (1866), Douglas & Scott (1868) and Douglas & Scott (1869), respectively (as *C. limitata*, *C. scotti* and *C. venusta*). Douglas & Scott (1869) also added *Arctocorisa carinata* (C.R. Sahlberg) and *Arctocorisa germari* (Fieber), as *C. Sharpi* and *C. intricata*, respectively.

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR DEVON INTO VICE-COUNTY LISTS FOR VC3 AND VC4

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Introduction

The list of Hemiptera-Heteroptera for Devon in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian South Devon (VC3) and Watsonian North Devon (VC4).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). The resulting vice-county lists include 285 records, compared with 337 for the original Devon list. The list for Devon as a whole has shortened by 108, the decrease arising from two species added to the list and 110 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Devon are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking the records relate to the references from which they were derived, as indicated in Table 1.

The divided records

ARADIDAE

<i>Aneurus avenius</i> (Dufour) [DELETED]	-	-
<i>Aneurus laevis</i> (Fabricius) [DELETED]	-	-
<i>Aradus depressus</i> (Fabricius) [DELETED]	-	-

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC3 (53)	-
<i>Cyphostethus tristriatus</i> (Fabricius) [DELETED]	-	-
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC3 (12)	-
<i>Elasmucha grisea</i> (Linnaeus)	VC3 (46)	-

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	VC3 (4)	VC4 (4)
<i>Legnotus limbosus</i> (Geoffroy)	VC3 (24)	VC4 (10)
<i>Sehirus luctuosus</i> Mulsant & Rey	VC3 (28)	-
<i>Tritomegas bicolor</i> (Linnaeus) [DELETED]	-	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	VC3 (24)	VC4 (52)
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SCUTELLERIDAE

<i>Eurygaster maura</i> (Linnaeus) [DELETED]	-	-
<i>Eurygaster testudinaria</i> (Geoffroy) [DELETED]	-	-
<i>Odontoscelis lineola</i> Rambur	-	VC4 (4)

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC3 (52)	-
<i>Dolycoris baccarum</i> (Linnaeus)	VC3 (12)	VC4 (47)
<i>Eurydema dominulus</i> (Scopoli) [DELETED]	-	-
<i>Eurydema oleracea</i> (Linnaeus)	VC3 (24)	-
<i>Mecidea lindbergi</i> Wagner [NEW]	VC3 (44)	-
<i>Neottiglossa pusilla</i> (Gmelin) [DELETED]	-	-
<i>Palomena prasina</i> (Linnaeus)	VC3 (12)	-
<i>Pentatoma rufipes</i> (Linnaeus)	VC3 (12)	-
<i>Peribalus strictus</i> (Fabricius)	VC3 (23)	-
<i>Picromerus bidens</i> (Linnaeus)	VC3 (53)	-
<i>Piezodorus lituratus</i> (Fabricius)	VC3 (12)	-
<i>Podops inunctus</i> (Fabricius)	VC3 (53)	-
<i>Rhacognathus punctatus</i> (Linnaeus)	VC3 (24)	-
<i>Troilus luridus</i> (Fabricius)	VC3 (53)	-
<i>Zicrona caerulea</i> (Linnaeus)	-	VC4 (10)

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	-	VC4 (4)
<i>Coreus marginatus</i> (Linnaeus)	VC3 (12)	-
<i>Coriomeris denticulatus</i> (Scopoli)	VC3 (24)	-
<i>Enoplops scapha</i> (Fabricius)	VC3 (48)	-
<i>Syromastus rhombeus</i> (Linnaeus)	VC3 (28)	VC4 (47)

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	VC3 (24)	-
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RHOPALIDAE

<i>Chorosoma schillingii</i> (Schilling) [DELETED]	-	-
<i>Corizus hyoscyami</i> (Linnaeus)	VC3 (4)	VC4 (4)
<i>Liorhyssus hyalinus</i> (Fabricius)	-	VC4 (34)
<i>Myrmus miriformis</i> (Fallén)	-	VC4 (52)
<i>Rhopalus subrufus</i> (Gmelin)	VC3 (12)	VC4 (10)

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus)	VC3 (24)	-
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STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli)	VC3 (4)	VC4 (4)
<i>Dicranocephalus albipes</i> (Fabricius) [DELETED]	-	-
<i>Dicranocephalus medius</i> (Mulsant & Rey)	VC3 (4)	-

LYGAEIDAE

<i>Aphanus rolandri</i> (Linnaeus)	VC3 (24)	VC4 (2)
<i>Beosus maritimus</i> (Scopoli)	VC3 (4)	-
<i>Chilacis typhae</i> (Perris) [DELETED]	-	-
<i>Cymus claviculus</i> (Fallén)	VC3 (12)	-
<i>Cymus glandicolor</i> Hahn	VC3 (22)	-
<i>Drymus brunneus</i> (R.F. Sahlberg)	VC3 (24)	-
<i>Drymus pilipes</i> Fieber	VC3 (24)	-
<i>Drymus ryeii</i> Douglas & Scott [DELETED]	-	-
<i>Drymus sylvaticus</i> (Fabricius)	VC3 (29)	-
<i>Eremocoris podagricus</i> (Fabricius)	-	VC4 (24)
<i>Gastrodes grossipes</i> (De Geer)	VC3 (24)	-
<i>Graptopeltus lynceus</i> (Fabricius) [DELETED]	-	-

LYGAEIDAE (CONTINUED)

<i>Henestaris laticeps</i> (Curtis)	VC3 (40)	-
<i>Heterogaster urticae</i> (Fabricius) [DELETED]	-	-
<i>Ischnocoris angustulus</i> (Boheman)	VC3 (40)	-
<i>Kleidocerys ericae</i> (Horváth)	VC3 (12)	-
<i>Kleidocerys resedae</i> (Panzer)	VC3 (24)	-
<i>Lamproplax picea</i> (Flor)	VC3 (7)	-
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	VC3 (53)	VC4 (31)
<i>Macrodema microptera</i> (Curtis)	VC3 (12)	VC4 (14)
<i>Megalonotus antennatus</i> (Schilling)	VC3 (24)	-
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	VC3 (40)	-
<i>Notochilus limbatus</i> Fieber	VC3 (26)	VC4 (47)
<i>Nysius ericae</i> (Schilling) [DELETED]	-	-
<i>Nysius thymi</i> (Wolff)	-	VC4 (36)
<i>Peritrechus geniculatus</i> (Hahn)	-	VC4 (31)
<i>Peritrechus lundii</i> (Gmelin)	VC3 (28)	-
<i>Peritrechus nubilus</i> (Fallén) [DELETED]	-	-
<i>Plinthisus brevipennis</i> (Latreille)	VC3 (8)	VC4 (31)
<i>Raglius alboacuminatus</i> (Goeze)	VC3 (24)	-
<i>Rhyparochromus pini</i> (Linnaeus)	VC3 (53)	VC4 (4)
<i>Scolopostethus affinis</i> (Schilling) [DELETED]	-	-
<i>Scolopostethus decoratus</i> (Hahn)	VC3 (12)	-
<i>Scolopostethus grandis</i> Horváth [DELETED]	-	-
<i>Scolopostethus pictus</i> (Schilling) [DELETED]	-	-
<i>Scolopostethus puberulus</i> Horváth	VC3 (49)	-
<i>Scolopostethus thomsoni</i> Reuter	VC3 (12)	-
<i>Stygnocoris fuliginus</i> (Geoffroy)	VC3 (12)	VC4 (47)
<i>Stygnocoris rusticus</i> (Fallén)	VC3 (12)	-
<i>Stygnocoris sabulosus</i> (Schilling)	VC3 (12)	-
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Trapezonotus ullrichi</i> (Fieber)	VC3 (4)	-
<i>Tropistethus holosericus</i> (Scholtz)	VC3 (40)	-
<i>Xanthochilus quadratus</i> (Fabricius)	VC3 (6)	-

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius) [DELETED]	-	-
<i>Berytinus crassipes</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Berytinus hirticornis</i> (Brullé)	VC3 (11)	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	-	VC4 (24)
<i>Berytinus montivagus</i> (Meyer-Dür)	VC3 (53)	VC4 (24)
<i>Berytinus signoreti</i> (Fieber) [DELETED]	-	-
<i>Gampsocoris punctipes</i> (Germar)	VC3 (24)	VC4 (52)
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	VC3 (56)	-
<i>Neides tipularius</i> (Linnaeus)	VC3 (28)	-

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	VC3 (30)	-
<i>Piesma maculatum</i> (Laporte)	VC3 (8)	-

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	VC3 (8)	-
<i>Acalypta carinata</i> (Panzer) [DELETED]	-	-
<i>Acalypta parvula</i> (Fallén)	VC3 (24)	-
<i>Agramma laetum</i> (Fallén) [DELETED]	-	-

TINGIDAE (CONTINUED)

<i>Campylosteira verna</i> (Fallén) [DELETED]	-	-
<i>Catoplatus fabricii</i> (Stål) [DELETED]	-	-
<i>Derephysia foliacea</i> (Fallén)	VC3 (12)	VC4 (52)
<i>Dictyla convergens</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Dictyonota strichnocera</i> Fieber	VC3 (24)	-
<i>Kalama tricornis</i> (Schränk) [DELETED]	-	-
<i>Oncochila simplex</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	VC3 (49)	-
<i>Physatocheila smreczynskii</i> China	VC3 (1)	-
<i>Stephanitis rhododendri</i> Horváth [DELETED]	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Tingis cardui</i> (Linnaeus)	-	VC4 (47)
<i>Tingis reticulata</i> Herrich-Schaeffer [DELETED]	-	-

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer) [DELETED]	-	-
<i>Empicoris vagabundus</i> (Linnaeus)	VC3 (24)	-
<i>Pygolampis bidentata</i> (Goeze) [DELETED]	-	-

NABIDAE

<i>Himacerus boops</i> (Schjødte) [DELETED]	-	-
<i>Himacerus major</i> (A. Costa)	VC3 (29)	-
<i>Himacerus mirmicoides</i> (O. Costa)	VC3 (12)	-
<i>Nabis ericetorum</i> Scholtz [DELETED]	-	-
<i>Nabis fesus</i> (Linnaeus)	VC3 (12)	-
<i>Nabis flavomarginatus</i> Scholtz	-	VC4 (26)
<i>Nabis limbatus</i> Dahlbom [DELETED]	-	-
<i>Nabis lineatus</i> Dahlbom	VC3 (52)	-
<i>Nabis pseudoferus</i> Remane	-	VC4 (35)
<i>Nabis rugosus</i> (Linnaeus)	VC3 (12)	-

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	VC3 (12)	-
<i>Acompocoris pygmaeus</i> (Fallén) [DELETED]	-	-
<i>Anthocoris confusus</i> Reuter [DELETED]	-	-
<i>Anthocoris gallarumulmi</i> (De Geer) [DELETED]	-	-
<i>Anthocoris nemoralis</i> (Fabricius) [DELETED]	-	-
<i>Anthocoris nemorum</i> (Linnaeus) [DELETED]	-	-
<i>Buchananiella continua</i> (F.B. White)	VC3 (41)	-
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	VC3 (4)	-
<i>Dufouriellus ater</i> (Dufour)	VC3 (8)	-
<i>Lyctocoris campestris</i> (Fabricius)	VC3 (8)	-
<i>Orius laevigatus</i> (Fieber)	VC3 (9)	-
<i>Orius majusculus</i> (Reuter)	VC3 (8)	-
<i>Orius niger</i> (Wolff) [DELETED]	-	-
<i>Temnostethus gracilis</i> Horváth	VC3 (19)	VC4 (37)
<i>Tetraphleps bicuspidis</i> (Herrich-Schaeffer)	VC3 (8)	-
<i>Xylocoris cursitans</i> (Fallén)	VC3 (12)	VC4 (4)
<i>Xylocoris galactinus</i> (Fieber) [DELETED]	-	-

CIMICIDAE

<i>Cimex columbarius</i> Jenyns [DELETED]	-	-
<i>Cimex lectularius</i> Linnaeus [DELETED]	-	-
<i>Cimex pipistrelli</i> Jenyns [DELETED]	-	-

CIMICIDAE (CONTINUED)

Oeciacus hirundinis (Lamarck) [DELETED]

- -

MICROPHYSIDAE

Loricula elegantula (Baerensprung)

- VC4 (37)

Loricula inconspicua (Douglas & Scott)

VC3 (40) -

Loricula pselaphiformis Curtis

- VC4 (37)

Loricula ruficeps (Reuter) [NEW]

VC3 (43) -

MIRIDAE

Acetropis gimmerthalii (Flor) [DELETED]

- -

Adelphocoris lineolatus (Goeze)

VC3 (24) -

Adelphocoris seticornis (Fabricius)

VC3 (53) VC4 (37)

Adelphocoris ticinensis (Meyer-Dür)

VC3 (12) -

Amblytylus nasutus (Kirschbaum)

VC3 (55) -

Apolygus lucorum (Meyer-Dür) [DELETED]

- -

Apolygus spinolae (Meyer-Dür)

VC3 (24) -

Asciodema obsoleta (Fieber) [DELETED]

- -

Atractotomus magnicornis (Fallén)

VC3 (12) -

Atractotomus mali (Meyer-Dür) [DELETED]

- -

Blepharidopterus angulatus (Fallén)

VC3 (55) -

Bothynotus pilosus (Boheman)

VC3 (27) -

Bryocoris pteridis (Fallén)

VC3 (24) VC4 (52)

Calocoris roseomaculatus (De Geer)

VC3 (12) -

Camptozygum aequale (Villers) [DELETED]

- -

Campyloneura virgula (Herrich-Schaeffer)

VC3 (12) -

Capsodes flavomarginatus (Donovan)

VC3 (12) -

Capsodes gothicus (Linnaeus)

VC3 (3) -

Capsodes sulcatus (Fieber)

VC3 (4) -

Capsus ater (Linnaeus) [DELETED]

- -

Charagochilus gyllenhalii (Fallén)

VC3 (12) -

Chlamydatius pullus (Reuter) [DELETED]

- -

Chlamydatius saltitans (Fallén) [DELETED]

- -

Chlamydatius wilkinsoni (Douglas & Scott) [DELETED]

- -

Closterotomus fulvomaculatus (De Geer)

VC3 (24) -

Closterotomus norwegicus (Gmelin) [DELETED]

- -

Compsidolon salicellum (Herrich-Schaeffer) [DELETED]

- -

Cyllecoris histrionius (Linnaeus) [DELETED]

- -

Cyrtorhinus caricis (Fallén)

VC3 (24) -

Deraeocoris ruber (Linnaeus)

VC3 (24) -

Deraeocoris scutellaris (Fabricius) [DELETED]

- -

Dichroscytus rufipennis (Fallén) [DELETED]

- -

Dicyphus annulatus (Wolff)

VC3 (55) -

Dicyphus constrictus (Boheman)

VC3 (55) VC4 (33)

Dicyphus epilobii Reuter

VC3 (24) -

Dicyphus errans (Wolff)

VC3 (55) -

Dicyphus escalerae Lindberg

VC3 (42) -

Dicyphus globulifer (Fallén)

VC3 (12) -

Dicyphus pallicornis (Fieber) [DELETED]

- -

Dryophilocoris flavoquadrimaculatus (De Geer) [DELETED]

- -

Globiceps flavomaculatus (Fabricius)

VC3 (24) -

Globiceps fulvicollis Jakovlev [DELETED]

- -

Grypocoris stysi (Wagner)

VC3 (12) -

Hallodapus rufescens (Burmeister) [DELETED]

- -

Harpocera thoracica (Fallén)

VC3 (24) -

MIRIDAE (CONTINUED)

<i>Heterocordylus tibialis</i> (Hahn) [DELETED]	-	-
<i>Heterotoma planicornis</i> (Pallas) [DELETED]	-	-
<i>Hoplomachus thunbergii</i> (Fallén)	VC3 (24)	-
<i>Leptopterna dolabrata</i> (Linnaeus)	VC3 (24)	-
<i>Leptopterna ferrugata</i> (Fallén) [DELETED]	-	-
<i>Liocoris tripustulatus</i> (Fabricius) [DELETED]	-	-
<i>Lopus decolor</i> (Fallén)	VC3 (12)	-
<i>Lygocoris pabulinus</i> (Linnaeus)	VC3 (24)	-
<i>Lygocoris rugicollis</i> (Fallén)	VC3 (15)	-
<i>Lygus rugulipennis</i> Poppius	VC3 (20)	VC4 (26)
<i>Macrolophus rubi</i> Woodroffe [DELETED]	-	-
<i>Macrotylus paykullii</i> (Fallén)	VC3 (55)	-
<i>Malacocoris chlorizans</i> (Panzer) [DELETED]	-	-
<i>Mecomma ambulans</i> (Fallén)	VC3 (24)	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Megalocoleus molliculus</i> (Fallén)	VC3 (12)	-
<i>Megalocoleus tanaceti</i> (Fallén)	VC3 (24)	-
<i>Miridius quadrivirgatus</i> (A. Costa)	VC3 (12)	VC4 (24)
<i>Miris striatus</i> (Linnaeus)	VC3 (24)	-
<i>Monalocoris filicis</i> (Linnaeus) [DELETED]	-	-
<i>Monosynamma sabulicola</i> (Wagner)	-	VC4 (38)
<i>Neolygus viridis</i> (Fallén) [DELETED]	-	-
<i>Notostira elongata</i> (Geoffroy) [DELETED]	-	-
<i>Oncotylus viridiflavus</i> (Goeze)	VC3 (12)	-
<i>Orthocephalus coriaceus</i> (Fabricius)	VC3 (12)	-
<i>Orthocephalus saltator</i> (Hahn)	VC3 (12)	-
<i>Orthonotus rufifrons</i> (Fallén)	VC3 (12)	-
<i>Orthotylus bilineatus</i> (Fallén)	-	VC4 (37)
<i>Orthotylus ericetorum</i> (Fallén)	VC3 (24)	VC4 (14)
<i>Orthotylus flavinervis</i> (Kirschbaum) [DELETED]	-	-
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC3 (54)	-
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	VC3 (53)	-
<i>Orthotylus nassatus</i> (Fabricius) [DELETED]	-	-
<i>Orthotylus prasinus</i> (Fallén) [DELETED]	-	-
<i>Orthotylus rubidus</i> (Puton) [DELETED]	-	-
<i>Orthotylus tenellus</i> (Fallén) [DELETED]	-	-
<i>Orthotylus virescens</i> (Douglas & Scott) [DELETED]	-	-
<i>Pachytomella parallela</i> (Meyer-Dür)	VC3 (4)	-
<i>Pantilius tunicatus</i> (Fabricius) [DELETED]	-	-
<i>Phoenicocoris obscurellus</i> (Fallén) [DELETED]	-	-
<i>Phylus coryli</i> (Linnaeus)	VC3 (24)	-
<i>Phylus melanocephalus</i> (Linnaeus)	VC3 (24)	-
<i>Phytocoris dimidiatus</i> Kirschbaum [DELETED]	-	-
<i>Phytocoris longipennis</i> Flor [DELETED]	-	-
<i>Phytocoris populi</i> (Linnaeus) [DELETED]	-	-
<i>Phytocoris tiliae</i> (Fabricius) [DELETED]	-	-
<i>Phytocoris ulmi</i> (Linnaeus) [DELETED]	-	-
<i>Phytocoris varipes</i> Boheman [DELETED]	-	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Pinalitus rubricatus</i> (Fallén) [DELETED]	-	-
<i>Pinalitus viscicola</i> (Puton)	VC3 (12)	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC3 (12)	-
<i>Plagiognathus arbustorum</i> (Fabricius) [DELETED]	-	-
<i>Plagiognathus chrysanthemi</i> (Wolff) [DELETED]	-	-

MIRIDAE (CONTINUED)

<i>Platycranus bicolor</i> (Douglas & Scott)	VC3 (8)	-
<i>Polymerus nigrita</i> (Fallén) [DELETED]	-	-
<i>Polymerus unifasciatus</i> (Fabricius) [DELETED]	-	-
<i>Psallodema fieberi</i> (Fieber) [DELETED]	-	-
<i>Psallus ambiguus</i> (Fallén) [DELETED]	-	-
<i>Psallus falleni</i> Reuter [DELETED]	-	-
<i>Psallus flavellus</i> Stichel [DELETED]	-	-
<i>Psallus haematodes</i> (Gmelin) [DELETED]	-	-
<i>Psallus lepidus</i> Fieber [DELETED]	-	-
<i>Psallus salicis</i> (Kirschbaum) [DELETED]	-	-
<i>Psallus varians</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	VC3 (24)	-
<i>Rhabdomiris striatellus</i> (Fabricius)	VC3 (24)	-
<i>Stenodema calcarata</i> (Fallén) [DELETED]	-	-
<i>Stenodema holsata</i> (Fabricius)	VC3 (24)	-
<i>Stenodema laevigata</i> (Linnaeus) [DELETED]	-	-
<i>Stenotus binotatus</i> (Fabricius)	VC3 (12)	-
<i>Teratocoris antennatus</i> (Boheman)	VC3 (55)	-
<i>Teratocoris saundersi</i> Douglas & Scott	VC3 (39)	-
<i>Tuponia mixticolor</i> (A. Costa)	VC3 (5)	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	VC3 (25)	-

DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	VC3 (55)	VC4 (51)
<i>Pachycoleus waltli</i> Fieber	VC3 (51)	-

SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC3 (13)	-
<i>Chartoscirta cocksii</i> (Curtis)	VC3 (13)	-
<i>Chiloxanthus pilosus</i> (Fallén) [DELETED]	-	-
<i>Halosalda lateralis</i> (Fallén)	VC3 (24)	-
<i>Macrosaldula scotica</i> (Curtis)	VC3 (55)	VC4 (18)
<i>Salda littoralis</i> (Linnaeus)	VC3 (55)	-
<i>Saldula arenicola</i> (Scholtz)	VC3 (4)	-
<i>Saldula c-album</i> (Fieber)	VC3 (55)	VC4 (52)
<i>Saldula orthochila</i> (Fieber)	VC3 (24)	-
<i>Saldula pilosella</i> (Thomson)	VC3 (54)	-
<i>Saldula saltatoria</i> (Linnaeus)	VC3 (24)	-

AEOPHILIDAE

<i>Aepophilus bonnairei</i> Signoret	VC3 (8)	VC4 (32)
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MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	VC3 (16)	-
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HEBRIDAE

<i>Hebrus pusillus</i> (Fallén)	VC3 (13)	-
<i>Hebrus ruficeps</i> Thomson	VC3 (13)	-

HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus)	VC3 (16)	VC4 (16)
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VELIIDAE

<i>Microvelia reticulata</i> (Burmeister)	VC3 (16)	-
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VELIIDAE (CONTINUED)		
<i>Velia caprai</i> Tamanini	VC3 (16)	VC4 (16)
GERRIDAE		
<i>Aquarius najas</i> (De Geer)	VC3 (16)	VC4 (16)
<i>Gerris argentatus</i> Schummel	VC3 (16)	-
<i>Gerris gibbifer</i> Schummel	VC3 (16)	VC4 (16)
<i>Gerris lacustris</i> (Linnaeus)	VC3 (16)	VC4 (16)
<i>Gerris lateralis</i> Schummel	VC3 (21)	-
<i>Gerris odontogaster</i> (Zetterstedt) [DELETED]	-	-
<i>Gerris thoracicus</i> Schummel	VC3 (16)	VC4 (16)
NEPIDAE		
<i>Nepa cinerea</i> Linnaeus	VC3 (16)	-
<i>Ranatra linearis</i> (Linnaeus)	VC3 (16)	-
NAUCORIDAE		
<i>Ilyocoris cimicoides</i> (Linnaeus)	VC3 (16)	VC4 (16)
APHELOCHEIRIDAE		
<i>Aphelocheirus aestivalis</i> (Fabricius)	VC3 (16)	VC4 (16)
NOTONECTIDAE		
<i>Notonecta glauca</i> Linnaeus	VC3 (16)	VC4 (16)
<i>Notonecta maculata</i> Fabricius	VC3 (16)	VC4 (21)
<i>Notonecta obliqua</i> Thunberg	VC3 (16)	VC4 (21)
<i>Notonecta viridis</i> Delcourt	VC3 (16)	VC4 (16)
PLEIDAE		
<i>Plea minutissima</i> Leach	VC3 (16)	VC4 (16)
CORIXIDAE		
<i>Arctocorisa germari</i> (Fieber)	VC3 (21)	-
<i>Callicorixa praeusta</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Callicorixa wollastoni</i> (Douglas & Scott)	VC3 (21)	-
<i>Corixa affinis</i> Leach	VC3 (24)	VC4 (21)
<i>Corixa punctata</i> (Illiger)	VC3 (16)	VC4 (16)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg) [DELETED]	-	-
<i>Cymatia coleoptrata</i> (Fabricius)	VC3 (16)	VC4 (17)
<i>Glaenocorisa propinqua</i> (Fieber) [DELETED]	-	-
<i>Hesperocorixa castanea</i> (Thomson)	VC3 (16)	VC4 (21)
<i>Hesperocorixa linnaei</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Hesperocorixa moesta</i> (Fieber)	VC3 (21)	-
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Micronecta poweri</i> (Douglas & Scott)	-	VC4 (16)
<i>Micronecta scholtzi</i> (Fieber)	VC3 (16)	-
<i>Paracorixa concinna</i> (Fieber) [DELETED]	-	-
<i>Sigara distincta</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Sigara dorsalis</i> (Leach)	VC3 (16)	VC4 (16)
<i>Sigara falleni</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Sigara fossarum</i> (Leach)	VC3 (16)	-
<i>Sigara lateralis</i> (Leach)	VC3 (16)	VC4 (21)
<i>Sigara limitata</i> (Fieber)	-	VC4 (21)
<i>Sigara nigrolineata</i> (Fieber)	VC3 (16)	VC4 (14)
<i>Sigara scotti</i> (Douglas & Scott)	VC3 (16)	VC4 (21)

CORIXIDAE (CONTINUED)

<i>Sigara selecta</i> (Fieber)	VC3 (21)	-
<i>Sigara semistriata</i> (Fieber)	VC3 (24)	-
<i>Sigara stagnalis</i> (Leach)	VC3 (16)	-
<i>Sigara venusta</i> (Douglas & Scott)	VC3 (16)	-

During my research for this article I discovered some new vice-county records for the neighbouring county of Somerset, which I list below.

Charagochilus gyllenhalii (Fallén) (Miridae) VC6 (45)
Closterotomus fulvomaculatus (De Geer) (Miridae) VC6 (45)
Cyllocoris histrionius (Linnaeus) (Miridae) VC6 (45)
Heterocordylus genistae (Scopoli) (Miridae) VC6 (50)
Mecomma ambulans (Fallén) (Miridae) VC6 (45)
Orthocephalus saltator (Hahn) (Miridae) VC6 (45)
Phylus melanocephalus (Linnaeus) (Miridae) VC6 (45)
Psallodema fieberi (Fieber) (Miridae) VC6 (50)
Psallus lepidus Fieber (Miridae) VC6 (45)
Psallus varians (Herrich-Schaeffer) (Miridae) VC6 (45)
Tinicephalus hortulanus (Meyer-Dür) VC6 (50)

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Alexander (2007)	(29) Thomas (1955b)
(2) Alexander <i>et al.</i> (1999)	(30) Thomas (1956)
(3) Alexander & Grove (1991a)	(31) Whitehead (2004)
(4) Alexander & Grove (1991b)	(32) Wollaston (1942)
(5) Barclay & Nau (2003)	(33) Woodroffe (1958)
(6) Bedwell (1920)	(34) Woodroffe (1959a)
(7) Bedwell (1924)	(35) Woodroffe (1959b)
(8) Bignell (1906)	(36) Woodroffe (1959c)
(9) Britten (1939)	(37) Woodroffe (1959d)
(10) Campbell-Taylor (1943)	(38) Woodroffe (1967a)
(11) China (1943)	(39) Woodroffe (1967b)
(12) Collett (1938)	(40) Whitehead (2009)
(13) Drake (2008)	(41) Aukema (2007)
(14) Hale-Carpenter (1943)	(42) Aukema (2010)
(15) Hey (1935)	(43) Ryan (2017a)
(16) Huxley (2003)	(44) Ryan (2017b)
(17) Lansbury (1956)	(45) Blathwayt (1889)
(18) Lansbury (1961)	(46) Hellins (1874)
(19) Le Quesne (1955)	(47) Swale (1893)
(20) Leston & Southwood (1961)	(48) Anonymous (1897)
(21) Morgan (1957)	(49) Saunders (1899)
(22) Morris (1971)	(50) Saunders (1905)
(23) Nau (1995)	(51) Champion (1908a)
(24) Parfitt (1884)	(52) Champion (1908b)
(25) Scudder (1957a)	(53) Edmonds (1915)
(26) Scudder (1957b)	(54) Champion (1915)
(27) Southgate (1959)	(55) Champion (1917a)
(28) Thomas (1955a)	(56) Champion (1917b)

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SPECIES ACCOUNTS FOR THE HEMIPTERA-HETEROPTERA REPORTED AS NEW TO THE BRITISH ISLES SINCE SOUTHWOOD & LESTON (1959): 2015 TO THE PRESENT

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Introduction

This is the seventh and final instalment of species accounts which expand upon the Addendum to Southwood & Leston (1959) (Ryan, 2012 & 2013). The previous instalments (Ryan, 2015, 2016a, 2016b, 2017a, 2017b & 2018) covered the species announced as new to the British Isles in the period 1959 to 2014, which is here extended to the present day. As before, the species accounts are based upon details published in the national entomological literature up to the present time.

The numbering of the species accounts follows that of Ryan (2012), which places them within the taxonomic sequence of Southwood & Leston (1959). Images for the bugs may be found at the British Bugs website (www.britishbugs.org.uk) and elsewhere on the internet, such as Flickr (www.flickr.com). References are not cited within the species accounts, in order to avoid cluttering the prose. The evidence base for the accounts is instead given in an annotated bibliography.

Species accounts

299C *Dicyphus tamaninii* Wagner (Miridae)

This plant bug was first reported from the British Isles by M. G. Telfer, who took it at Crystal Palace, London (West Kent) sweeping vegetation on disturbed ground on 23 August 2013. An earlier record exists from Battersea Power Station, London (Surrey) taken on 13 May 2008, also from vegetation growing on disturbed ground. It has since been recorded elsewhere in the London area, again on disturbed ground, adding South Essex to the list of recorded counties. In addition to the above months, adults have been found in September. The bug has been associated with great willowherb, *Epilobium hirsutum* L. The insect is very similar to *Dicyphus escalerae* Lindberg, but can be separated by the form of the left clasper.

203B *Orius horvathi* (Reuter) (Anthoridae)

This flower bug was first found in the British Isles by P. Kirby beating Austrian Pine, *Pinus nigra*, at Westwood, Peterborough, VC32 on 10 July 2014. Males can be identified by examination of the paramere.

180A *Nabis capsiformis* Germar (Nabidae)

This damsel bug was first found in the British Isles in a moth trap by D. Appleton at Porthgwarra, Cornwall on 21 November 2014. The bug is unusual for the genus in having forewings that extend well beyond the end of the abdomen.

271A *Psallus anaemicus* Seidenstücker (Miridae)

271B *Psallus helenae* Josifov (Miridae)

These plant bugs were first found in the British Isles by P. Kirby beating Turkey Oak, *Quercus cerris*, at Thorpe Park, Peterborough, VC32 on 16 June 2014. Both species have since been found on Turkey oak in Oxfordshire, *P. helenae* in Hampshire, and *P. anaemicus*, in Essex and Berkshire, in the months of June and July. They can be identified by examination of the male paramere.

041A *Mecidea lindbergi* Wagner (Pentatomidae)

This shieldbug was first found in the British Isles by P. Harris in a moth trap at Weymouth, Dorset on 17 December 2015. Later that month, the bug was taken at light a number of times in South Hampshire, South Devon and Dorset. Its narrow, elongate shape is unlike that of any other British shieldbug.

271C *Psallus lucanicus* Wagner (Miridae)

This plant bug was first found in the British Isles by B. S. Nau beating Turkey Oak in Bedfordshire in June 2015. In the same month, and on the same plant, it was found in Oxfordshire. The bug can be identified by examination of the male paramere.

130G *Spilostethus pandurus* (Scopoli) (Lygaeidae)

This groundbug was first reported as British from a specimen found on the flower head of *Senecio jacobaea* at a brownfield site in Ashford, East Kent by J. Kaunang on 30 July 2015. The bug is distinctive and unlikely to be confused with any other British species.

390A *Adelphocoris quadripunctatus* (Fabricius) (Miridae)

This capsid bug was first identified as British from a photograph taken by C. Lawrence on 18 July 2016 of an example on a flower head of *Lotus pedunculatus* beside a pond at Rhondda Cynon Taf, South Wales (VC41). Further specimens have been found at several sites in this vice-county, together with four museum specimens from the late 19th Century taken in East Sussex and Surrey, adding the months of August and September to the bug's seasonal distribution, and *Digitalis purpurea* as a plant association. It remains to be seen how widespread and common this bug now is in Britain, and the extent to which it has previously been confused with the similar *Adelphocoris lineolatus* (Goeze). The former may be separated from the latter by the course, dark pubescence on the hemelytra and the presence of four blackish spots on the pronotum.

028B *Sciocoris homalonotus* Fieber (Pentatomidae)

This shieldbug was first taken in Britain on 7 June 2016 sweeping chalk grassland at Coney Banks, Chatham, West Kent by H. Kenward. The bug is easily separated from its congener *Sciocoris cursitans* (Fabricius) by the former having pedunculate eyes.

271D *Psallus pardalis* Seidenstücker (Miridae)

This capsid bug was first taken in Britain beating a Turkey Oak in Windsor, Berkshire on 16 June 2016 by M. G. Telfer. The bug can be separated from its oak-dwelling congeners by examination of the aedeagus.

130H *Oxycarenus modestus* (Fallén) (Lygaeidae)

This seedbug was first taken in Britain beating alders in Hyde Park, London, Middlesex on 29 June 2017 by J. Denton. Nymphs and an adult were reported in the following month. The trees supporting the bug were reported as heavily fruiting and growing remote from water in open, sunny positions. The bulbous, apically expanded clypeus distinguishes this bug as belonging to the subfamily Oxycareninae, among the other British members of which it is distinct in host plant association, shape and colouring.

212A *Amphiareus constrictus* (Stål) (Anthocoridae)

Two adults this species were found in a garden at Blackheath, London (West Kent) by A. A. Allen on 30 September 1955 among dead grass and vegetable debris. There have been no further records. The bug was mentioned, without number, in Southwood & Leston (1959), but was not included in the British Isles list of Ryan (2012 & 2013).

Annotated bibliography

299C *Dicyphus tamaninii* Wagner (Miridae)

Telfer (2015). Record for 23 August 2013 by M. G. Telfer, swept from vegetation on disturbed ground in Crystal Palace, London (West Kent). Record for 3 September 2013, swept from great willowherb, *Epilobium hirsutum* L., on derelict land at Silverton Quays, London (South Essex). Record for 13 May 2008 on vegetation on mound of spoil at Battersea Power Station, London (Surrey) by P. Kirby. Record for 18 August 2012 at Dulwich, Surrey. *D. escalerae* and *D. tamaninii* are very similar, but can be separated by the form of the left clasper.

203B *Orius horvathi* (Reuter) (Anthocoridae)

Bantock (2015). Beaten from Austrian Pine, *Pinus nigra*, by P. Kirby at Westwood, Peterborough, (VC32) on 10.vii.2014 and 25.vii.2014. Males are most easily identified with reference to the paramere.

180A *Nabis capsiformis* Germar (Nabidae)

Bantock (2015). Taken in a moth trap by D. Appleton in Porthgwarra, Cornwall (VC1) on 21.xi.14. The bug is unusual for the genus in having forewings that extend well beyond the end of the abdomen. It has very long and slender mid and hind legs, there are three dark marks along the wing veins in the posterior half of the corium, and the rear margin of the pronotum is finely bordered.

271A *Psallus anaemicus* Seidenstücker (Miridae)

271B *Psallus helenae* Josifov (Miridae)

Bantock (2015). These species were beaten by P. Kirby from Turkey Oak, *Quercus cerris*, at Thorpe Park, Peterborough, Watsonian Northamptonshire on 16.vi.2014 and 28.vi.2014.

Ryan (2016c). Records for both species beaten from Turkey Oak in University Parks, Oxford, Oxfordshire on 20 June, 26 June, 12 July 2015. Also a singleton of *P. helenae* beaten from a Turkey Oak at The Chase, Broad Layings, Watsonian North Hampshire on 17 July. The females of both species are much paler than the males.

Flanagan (2016). *P. anaemicus*, Wanstead Flats, South Essex, 27 June 2015.

Telfer (2017) *P. anaemicus* taken beating a Turkey Oak in Windsor, Berkshire on 16 June 2016.

041A *Mecidea lindbergi* Wagner (Pentatomidae)

Bantock (2016). First found by P. Harris in a moth trap at Weymouth on 17.xii.15. Further records in December 2015 were taken at light in South Hampshire, South Devon and Dorset.

271C *Psallus lucanicus* Wagner (Miridae)

Ryan (2016c). Two females taken beating Turkey Oak on 26 June 2015, identified from photographs by Dr Bernard Nau. He had already taken a male of this species in Bedfordshire.

130G *Spilostethus pandurus* (Scopoli) (Lygaeidae)

Kaunang (2016a). Found in Ashford, East Kent, 30 July 2015.

Kaunang (2016b). Found on the flower head of *Senecio jacobaea* at a brownfield site in Ashford, East Kent by Jovita Kaunang on 30 July 2015.

390A *Adelphocoris quadripunctatus* (Fabricius) (Miridae)

Lawrence, *et al.* (2017). First identified as British from a photograph taken by Christopher Lawrence on 18 July 2016 of an example on a flower head of *Lotus pedunculatus* beside a pond at Rhondda Cynon Taf, South Wales (VC41). Further specimens have been found in collections, one from the nearby village of Coedely taken 11 August 2015 and four from East Sussex and Surrey taken in the late 19th century. Several additional sites have since been found in VC41, in July, August and September, all in association with the above plant, except for one associated with *Digitalis purpurea*. The bug may be separated from the similar *Adelphocoris lineolatus* (Goeze) by the former having coarse, dark pubescence on the hemelytra and four blackish spots on the pronotum.

028B *Sciocoris homalonotus* Fieber (Pentatomidae)

Bantock & Kenward (2017). First taken in Britain on 7 June 2016 sweeping chalk grassland at Coney Banks, Chatham, West Kent by Harry Kenward. The bug is easily separated from *Sciocoris cursitans* (Fabricius) by the former having pedunculate eyes.

271D *Psallus pardalis* Seidenstücker (Miridae)

Telfer (2017) First taken in Britain beating a Turkey Oak in Windsor, Berkshire on 16 June 2016 by Mark Telfer.

130H *Oxycarenus modestus* (Fallén) (Lygaeidae)

Denton (2018). First taken in Britain beating alders in Hyde Park, London, Middlesex on 29 June 2017 by J. Denton. Nymphs were reported in July 2017, and an adult on 2 July 2017. The trees supporting the bug were reported as heavily fruiting and growing remote from water in open, sunny positions. The bulbous, apically expanded clypeus distinguishes this bug as belonging to the subfamily Oxycareninae, among the other British members of which it is distinct in host plant association, shape and colouring.

212A *Amphiareus constrictus* (Stål) (Anthocoridae)

Allen (1956). Two adults (and some unidentified and nymphs) of *Lasiochilus sladeni* Distant (now going by the above name) found in a garden at Blackheath, London (West Kent) by A. A. Allen on 30 September 1955 among dead grass and vegetable debris.

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ADDITIONS TO RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR BEDFORDSHIRE

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The county list for Bedfordshire in Ryan (2014a & 2014b) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. I did not consider local publications, in particular the Bedfordshire Naturalist, and the present paper addresses this shortcoming, adding 103 new county records from the recent review of the Bedfordshire Heteroptera (Nau, 2015 & 2016), which are listed below.

ARADIDAE

Aneurus laevis (Fabricius)

ACANTHOSOMATIDAE

Cyphostethus tristriatus (Fabricius)

RHOPALIDAE

Rhopalus maculatus (Fieber)

LYGAEIDAE

Cymus glandicolor Hahn
Drymus latus Douglas & Scott
Gastrodes abietum Bergroth
Kleidocerys ericae (Horváth)
Lasiosomus enervis (Herrich-Schaeffer)
Megalonotus antennatus (Schilling)
Megalonotus chiragra (Fabricius)
Nysius huttoni F.B. White
Plinthisus brevipennis (Latreille)
Rhyparochromus pini (Linnaeus)
Scolopostethus grandis Horváth
Scolopostethus puberulus Horváth
Trapezonotus desertus Seidenstücker
Trapezonotus dispar Stål

BERYTIDAE

Berytinus minor (Herrich-Schaeffer)

PIESMATIDAE

Parapiesma quadratum (Fieber)

TINGIDAE

Acalypta brunnea (Germar)
Acalypta carinata (Panzer)
Agramma laetum (Fallén)
Campylosteira verna (Fallén)
Catoplatus fabricii (Stål)
Dictyonota fuliginosa A. Costa
Physatocheila dumetorum (Herrich-Schaeffer)

REDUVIIDAE

Coranus subapterus (De Geer)

REDUVIIDAE (CONTINUED)

- Empicoris culiciformis* (De Geer)
Empicoris vagabundus (Linnaeus)

ANTHOCORIDAE

- Anthocoris butleri* Le Quesne
Temnostethus gracilis Horváth

MICROPHYSIDAE

- Loricula elegantula* (Baerensprung)
Loricula exilis (Fallén)
Loricula pselaphiformis Curtis

MIRIDAE

- Agnocoris reclairei* (Wagner)
Alloeotomus gothicus (Fallén)
Amblytylus delicatus (Perris)
Apolygus spinolae (Meyer-Dür)
Blepharidopterus diaphanus (Kirschbaum)
Brachyarthrum limitatum Fieber
Bryocoris pteridis (Fallén)
Camptozygum aequale (Villers)
Campylomma verbaschi (Meyer-Dür)
Chlamydatus pullus (Reuter)
Chlamydatus saltitans (Fallén)
Dichrooscytus gustavi Josifov
Dichrooscytus rufipennis (Fallén)
Dicyphus pallicornis (Fieber)
Hallodapus rufescens (Burmeister)
Heterocordylus genistae (Scopoli)
Heterocordylus tibialis (Hahn)
Lygocoris rugicollis (Fallén)
Lygus maritimus Wagner
Lygus pratensis (Linnaeus)
Macrolophus rubi Woodroffe
Megalocoleus tanaceti (Fallén)
Miridius quadrivirgatus (A. Costa)
Monosynamma sabulicola (Wagner)
Neolygus populi (Leston)
Orthocephalus coriaceus (Fabricius)
Orthocephalus saltator (Hahn)
Orthops basalis (A. Costa)
Orthops campestris (Linnaeus)
Orthops kalmii (Linnaeus)
Orthotylus adenocarpi (Perris)
Orthotylus bilineatus (Fallén)
Orthotylus flavinervis (Kirschbaum)
Orthotylus junipericola Linnavuori
Orthotylus tenellus (Fallén)
Orthotylus viridinervis (Kirschbaum)
Parapsallus vitellinus (Scholtz)
Phylus melanocephalus (Linnaeus)
Pilophorus cinnamopterus (Kirschbaum)
Pilophorus clavatus (Linnaeus)
Pilophorus perplexus Douglas & Scott

MIRIDAE (CONTINUED)

Platycranus bicolor (Douglas & Scott)
Plesiodema pinetella (Zetterstedt)
Polymerus palustris (Reuter)
Polymerus unifasciatus (Fabricius)
Psallus albicinctus (Kirschbaum)
Psallus ambiguus (Fallén)
Psallus anaemicus Seidenstucker
Psallus assimilis Stichel
Psallus confusus Rieger
Psallus flavellus Stichel
Psallus helenae Josifov
Psallus luridus Reuter
Psallus perrisi (Mulsant & Rey)
Psallus salicis (Kirschbaum)
Psallus variabilis (Fallén)
Psallus wagneri Ossiannilsson
Teratocoris antennatus (Boheman)
Teratocoris saundersi Douglas & Scott
Tinicephalus hortulanus (Meyer-Dür)
Trigonotylus caelestialium (Kirkaldy)
Trigonotylus ruficornis (Geoffroy)
Tytthus pubescens (Knight)
Tytthus pygmaeus (Zetterstedt)

CERATOCOMBIDAE

Ceratocombus coleoptratus (Zetterstedt)

SALDIDAE

Chartoscirta cocksii (Curtis)
Chartoscirta elegantula (Fallén)
Saldula pallipes (Fabricius)

CORIXIDAE

Sigara scotti (Douglas & Scott)

Bernard has informed me that two species listed in the county distribution for Bedfordshire are now known to be erroneous, specifically *Nysius cymoides* (Spinola) (Lygaeidae) and *Pachycoleus waltli* Fieber (Dipsocoridae). These will be deleted from the distribution. I am most grateful to Bernard for his help with the Bedfordshire records.

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR NORTHUMBERLAND INTO VICE-COUNTY LISTS FOR VC67 AND VC68

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Introduction

The list of Hemiptera-Heteroptera for Northumberland in Ryan (2014) was compiled from that of Masee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian South Northumberland (VC67) and Watsonian North Northumberland (VC68).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). The resulting vice-county lists include 245 records, compared with 153 for the original Northumberland list. The list for Northumberland as a whole has lengthened by 18, the increase arising from 40 species added to the list and 22 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Northumberland are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking the records relate to the references from which they were derived, as indicated in Table 1.

The divided records

ARADIDAE

<i>Aradus depressus</i> (Fabricius) [NEW]	-	VC68 (22)
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ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus) [NEW]	VC67 (9)	-
<i>Cyphostethus tristriatus</i> (Fabricius)	VC67 (8)	VC68 (8)
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC67 (9)	VC68 (9)
<i>Elasmucha grisea</i> (Linnaeus) [NEW]	VC67 (9)	-

CYDNIDAE

<i>Tritomegas bicolor</i> (Linnaeus) [DELETED]	-	-
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PENTATOMIDAE

<i>Chlorochroa juniperina</i> (Linnaeus) [DELETED]	-	-
<i>Dolycoris baccarum</i> (Linnaeus)	VC67 (9)	VC68 (9)
<i>Palomena prasina</i> (Linnaeus)	VC67 (9)	VC68 (9)
<i>Pentatoma rufipes</i> (Linnaeus)	VC67 (9)	VC68 (9)
<i>Picromerus bidens</i> (Linnaeus) [DELETED]	-	-
<i>Piezodorus lituratus</i> (Fabricius)	VC67 (9)	VC68 (9)
<i>Podops inunctus</i> (Fabricius) [DELETED]	-	-
<i>Zicrona caerulea</i> (Linnaeus)	VC67 (9)	VC68 (9)

COREIDAE

<i>Enoplops scapha</i> (Fabricius) [DELETED]	-	-
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LYGAEIDAE

<i>Aphanus rolandri</i> (Linnaeus)	VC67 (15)	-
<i>Chilacis typhae</i> (Perris) [NEW]	VC67 (1)	VC68 (1)
<i>Cymus melanocephalus</i> Fieber [DELETED]	-	-
<i>Drymus brunneus</i> (R.F. Sahlberg)	-	VC68 (38)
<i>Drymus ryeii</i> Douglas & Scott [NEW]	-	VC68 (38)
<i>Drymus sylvaticus</i> (Fabricius)	-	VC68 (38)
<i>Kleidocerys ericae</i> (Horváth)	-	VC68 (2)
<i>Lamproplax picea</i> (Flor)	VC67 (15)	VC68 (2)
<i>Peritrechus lundii</i> (Gmelin)	-	VC68 (2)
<i>Scolopostethus affinis</i> (Schilling) [DELETED]	-	-
<i>Scolopostethus thomsoni</i> Reuter [NEW]	-	VC68 (32)
<i>Stygnocoris fuliginus</i> (Geoffroy)	-	VC68 (38)
<i>Stygnocoris rusticus</i> (Fallén)	VC67 (22)	-
<i>Stygnocoris sabulosus</i> (Schilling)	-	VC68 (38)
<i>Taphropeltus contractus</i> (Herrich-Schaeffer) [DELETED]	-	-

BERYTIDAE

<i>Berytinus signoreti</i> (Fieber)	VC67 (15)	-
<i>Gampsocoris punctipes</i> (Germar) [NEW]	-	VC68 (1)

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	VC67 (15)	-
<i>Acalypta carinata</i> (Panzer)	VC67 (15)	-
<i>Acalypta nigrina</i> (Fallén) [NEW]	-	VC68 (38)
<i>Acalypta parvula</i> (Fallén)	VC67 (2)	-
<i>Campylosteira verna</i> (Fallén)	VC67 (2)	-
<i>Derephysia foliacea</i> (Fallén)	VC67 (15)	-
<i>Stephanitis rhododendri</i> Horváth [DELETED]	-	-
<i>Tingis cardui</i> (Linnaeus)	VC67 (3)	VC68 (38)

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer) [NEW]	-	VC68 (1)
<i>Empicoris vagabundus</i> (Linnaeus) [NEW]	VC67 (22)	VC68 (1)

NABIDAE

<i>Himacerus mirmicoides</i> (O. Costa) [DELETED]	-	-
<i>Nabis ericetorum</i> Scholtz [DELETED]	-	-
<i>Nabis ferus</i> (Linnaeus)	-	VC68 (2)
<i>Nabis flavomarginatus</i> Scholtz [NEW]	VC67 (3)	VC68 (1)
<i>Nabis limbatus</i> Dahlbom	VC67 (3)	VC68 (38)

ANTHOCORIDAE

<i>Anthocoris limbatus</i> Fieber [NEW]	VC67 (22)	-
<i>Anthocoris nemoralis</i> (Fabricius)	VC67 (27)	-
<i>Anthocoris nemorum</i> (Linnaeus)	VC67 (11)	VC68 (11)
<i>Anthocoris sarothamni</i> Douglas & Scott	VC67 (2)	VC68 (38)
<i>Lyctocoris campestris</i> (Fabricius)	-	VC68 (38)
<i>Xylocoris galactinus</i> (Fieber) [DELETED]	-	-

CIMICIDAE

<i>Cimex lectularius</i> Linnaeus [DELETED]	-	-
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MICROPHYSIDAE

<i>Loricula distinguenda</i> (Reuter) [NEW]	-	VC68 (22)
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MICROPHYSIDAE (CONTINUED)

<i>Loricula elegantula</i> (Baerensprung) [NEW]	VC67 (1)	VC68 (1)
<i>Loricula pselaphiformis</i> Curtis	VC67 (24)	-

MIRIDAE

<i>Adelphocoris lineolatus</i> (Goeze)	VC67 (2)	-
<i>Apolygus lucorum</i> (Meyer-Dür)	VC67 (3)	VC68 (2)
<i>Apolygus spinolae</i> (Meyer-Dür) [NEW]	-	VC68 (38)
<i>Asciodema obsoleta</i> (Fieber)	VC67 (2)	VC68 (2)
<i>Blepharidopterus angulatus</i> (Fallén)	-	VC68 (38)
<i>Bryocoris pteridis</i> (Fallén)	VC67 (2)	VC68 (2)
<i>Calocoris alpestris</i> (Meyer-Dür)	VC67 (24)	-
<i>Calocoris roseomaculatus</i> (De Geer)	-	VC68 (2)
<i>Capsodes gothicus</i> (Linnaeus)	VC67 (15)	-
<i>Capsus ater</i> (Linnaeus)	VC67 (3)	VC68 (38)
<i>Capsus wagneri</i> (Remane)	VC67 (23)	-
<i>Chlamydatius pullus</i> (Reuter)	VC67 (15)	-
<i>Chlamydatius saltitans</i> (Fallén)	VC67 (2)	-
<i>Closterotomus norwegicus</i> (Gmelin)	-	VC68 (38)
<i>Conostethus brevis</i> Reuter	-	VC68 (25)
<i>Cylloceria hystrix</i> (Linnaeus)	VC67 (2)	VC68 (2)
<i>Cyrtorhinus caricus</i> (Fallén)	VC67 (22)	-
<i>Deraeocoris flavilinea</i> (A. Costa) [NEW]	VC67 (13)	-
<i>Dichroscytus rufipennis</i> (Fallén) [NEW]	VC67 (24)	-
<i>Dicyphus annulatus</i> (Wolff) [DELETED]	-	-
<i>Dicyphus constrictus</i> (Boheman) [NEW]	VC67 (22)	-
<i>Dicyphus epilobii</i> Reuter	VC67 (2)	VC68 (2)
<i>Dicyphus errans</i> (Wolff) [DELETED]	-	-
<i>Dicyphus globulifer</i> (Fallén)	VC67 (2)	VC68 (31)
<i>Dicyphus pallicornis</i> (Fieber)	-	VC68 (1)
<i>Dicyphus stachydis</i> J. Sahlberg [NEW]	VC67 (1)	VC68 (1)
<i>Globiceps fulvicollis</i> Jakovlev [DELETED]	-	-
<i>Grypocoris styti</i> (Wagner)	VC67 (16)	VC68 (38)
<i>Halticus apterus</i> (Linnaeus) [NEW]	VC67 (22)	-
<i>Harpocera thoracica</i> (Fallén)	VC67 (15)	VC68 (2)
<i>Heterocordylus genistae</i> (Scopoli)	VC67 (22)	-
<i>Heterocordylus tibialis</i> (Hahn)	VC67 (2)	VC68 (38)
<i>Leptopterna dolabrata</i> (Linnaeus)	VC67 (3)	-
<i>Leptopterna ferrugata</i> (Fallén)	VC67 (3)	VC68 (38)
<i>Liocoris tripustulatus</i> (Fabricius)	VC67 (2)	VC68 (38)
<i>Lopus decolor</i> (Fallén) [NEW]	-	VC68 (1)
<i>Lygocoris pabulinus</i> (Linnaeus)	VC67 (2)	VC68 (38)
<i>Lygocoris rugicollis</i> (Fallén)	VC67 (24)	VC68 (38)
<i>Lygus punctatus</i> (Zetterstedt) [NEW]	VC67 (22)	VC68 (22)
<i>Macrotylus paykullii</i> (Fallén) [DELETED]	-	-
<i>Malacocoris chlorizans</i> (Panzer)	-	VC68 (2)
<i>Mecomma ambulans</i> (Fallén)	-	VC68 (38)
<i>Mecomma dispar</i> (Boheman)	VC67 (3)	VC68 (22)
<i>Megalocoleus molliculus</i> (Fallén)	-	VC68 (15)
<i>Miris striatus</i> (Linnaeus) [NEW]	VC67 (17)	VC68 (38)
<i>Monalocoris filicis</i> (Linnaeus)	-	VC68 (38)
<i>Neolygus viridis</i> (Fallén)	-	VC68 (35)
<i>Notostira elongata</i> (Geoffroy)	VC67 (15)	-
<i>Orthotylus ericetorum</i> (Fallén)	VC67 (3)	VC68 (2)
<i>Orthotylus marginalis</i> Reuter	-	VC68 (38)

MIRIDAE (CONTINUED)

<i>Orthotylus tenellus</i> (Fallén) [NEW]	-	VC68 (38)
<i>Pachytomella parallela</i> (Meyer-Dür) [NEW]	VC67 (3)	VC68 (22)
<i>Pantilius tunicatus</i> (Fabricius)	VC67 (1)	VC68 (1)
<i>Phoenicocoris obscurellus</i> (Fallén)	VC67 (15)	-
<i>Phylus coryli</i> (Linnaeus)	-	VC68 (2)
<i>Phylus melanocephalus</i> (Linnaeus)	VC67 (24)	VC68 (2)
<i>Phytocoris longipennis</i> Flor [DELETED]	-	-
<i>Phytocoris populi</i> (Linnaeus)	VC67 (16)	-
<i>Phytocoris reuteri</i> Saunders	VC67 (2)	-
<i>Phytocoris tiliae</i> (Fabricius)	VC67 (15)	VC68 (1)
<i>Phytocoris ulmi</i> (Linnaeus)	VC67 (2)	-
<i>Phytocoris varipes</i> Boheman [DELETED]	-	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC67 (2)	VC68 (38)
<i>Pinalitus viscicola</i> (Puton) [NEW]	VC67 (22)	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC67 (3)	VC68 (38)
<i>Plagiognathus arbustorum</i> (Fabricius)	VC67 (3)	VC68 (38)
<i>Plagiognathus chrysanthemi</i> (Wolff)	-	VC68 (2)
<i>Platycranus bicolor</i> (Douglas & Scott) [NEW]	-	VC68 (2)
<i>Plesiodema pinetella</i> (Zetterstedt)	VC67 (24)	-
<i>Polymerus nigrita</i> (Fallén) [NEW]	-	VC68 (32)
<i>Polymerus unifasciatus</i> (Fabricius)	VC67 (2)	-
<i>Psallus ambiguus</i> (Fallén)	VC67 (24)	VC68 (38)
<i>Psallus falleni</i> Reuter	-	VC68 (38)
<i>Psallus flavellus</i> Stichel [NEW]	-	VC68 (38)
<i>Psallus haematodes</i> (Gmelin)	-	VC68 (38)
<i>Psallus lepidus</i> Fieber	VC67 (24)	VC68 (38)
<i>Psallus varians</i> (Herrich-Schaeffer)	VC67 (24)	VC68 (38)
<i>Rhabdomiris striatellus</i> (Fabricius)	-	VC68 (2)
<i>Stenodema calcarata</i> (Fallén)	VC67 (3)	VC68 (38)
<i>Stenodema holsata</i> (Fabricius)	VC67 (11)	VC68 (11)
<i>Strongylocoris leucocephalus</i> (Linnaeus)	VC67 (2)	-
<i>Teratocoris caricis</i> Kirkaldy	VC67 (23)	-
<i>Teratocoris saundersi</i> Douglas & Scott [NEW]	VC67 (3)	-
<i>Teratocoris viridis</i> Douglas & Scott [NEW]	VC67 (3)	-
<i>Tinicephalus hortulanus</i> (Meyer-Dür) [NEW]	VC67 (1)	VC68 (1)
<i>Trigonotylus ruficornis</i> (Geoffroy) [NEW]	VC67 (3)	-
<i>Tytthus pygmaeus</i> (Zetterstedt) [DELETED]	-	-

DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	-	VC68 (2)
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC67 (2)	-
<i>Macrosaldula scotica</i> (Curtis)	VC67 (27)	VC68 (19)
<i>Salda littoralis</i> (Linnaeus)	VC67 (19)	VC68 (19)
<i>Salda morio</i> Zetterstedt	VC67 (26)	-
<i>Salda muelleri</i> (Gmelin) [NEW]	VC67 (3)	-
<i>Saldula c-album</i> (Fieber)	VC67 (3)	VC68 (31)
<i>Saldula orthochila</i> (Fieber)	VC67 (3)	-
<i>Saldula saltatoria</i> (Linnaeus)	-	VC68 (38)

HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus) [DELETED]	-	-
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VELIIDAE

<i>Microvelia reticulata</i> (Burmeister)	VC67 (21)	-
<i>Velia caprai</i> Tamanini	VC67 (21)	VC68 (21)
<i>Velia saulii</i> Tamanini [NEW]	VC67 (36)	-

GERRIDAE

<i>Aquarius najas</i> (De Geer) [DELETED]	-	-
<i>Gerris costae</i> (Herrich-Schaeffer)	VC67 (21)	VC68 (21)
<i>Gerris lacustris</i> (Linnaeus)	VC67 (21)	VC68 (21)
<i>Gerris odontogaster</i> (Zetterstedt)	VC67 (21)	VC68 (21)
<i>Gerris thoracicus</i> Schummel	VC67 (6)	VC68 (21)
<i>Limnopus rufoscutellatus</i> (Latreille)	VC67 (29)	-

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	VC67 (21)	-
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NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	VC67 (12)	-
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APHELOCHEIRIDAE

<i>Aphelocheirus aestivalis</i> (Fabricius) [NEW]	-	VC68 (37)
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	VC67 (21)	VC68 (21)
<i>Notonecta obliqua</i> Thunberg [NEW]	VC67 (22)	-

PLEIDAE

<i>Plea minutissima</i> Leach	VC67 (12)	-
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CORIXIDAE

<i>Arctocorisa carinata</i> (C.R. Sahlberg)	VC67 (22)	VC68 (21)
<i>Arctocorisa germari</i> (Fieber)	VC67 (21)	-
<i>Callicorixa praeusta</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Callicorixa wollastoni</i> (Douglas & Scott)	VC67 (21)	VC68 (21)
<i>Corixa dentipes</i> Thomson [NEW]	VC67 (22)	-
<i>Corixa panzeri</i> Fieber	VC67 (2)	VC68 (21)
<i>Corixa punctata</i> (Illiger)	VC67 (21)	VC68 (21)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	VC67 (2)	-
<i>Hesperocorixa castanea</i> (Thomson) [NEW]	VC67 (7)	-
<i>Hesperocorixa linnaei</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Paracorixa concinna</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara distincta</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara dorsalis</i> (Leach)	VC67 (21)	VC68 (21)
<i>Sigara falleni</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara fossarum</i> (Leach)	VC67 (2)	VC68 (2)
<i>Sigara lateralis</i> (Leach)	VC67 (21)	VC68 (21)
<i>Sigara limitata</i> (Fieber)	VC67 (14)	-
<i>Sigara nigrolineata</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara scotti</i> (Douglas & Scott)	VC67 (21)	VC68 (21)
<i>Sigara selecta</i> (Fieber) [NEW]	VC67 (7)	VC68 (7)
<i>Sigara semistriata</i> (Fieber)	VC67 (2)	VC68 (21)
<i>Sigara sternalis</i> (Leach)	VC67 (12)	-
<i>Sigara venusta</i> (Douglas & Scott)	VC67 (2)	-

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Bagnall (1920)	(20) Horsefield (1980)
(2) Bold (1872)	(21) Huxley (2003)
(3) Cherrill & Sanderson (1994)	(22) Kerslake (1998)
(4) Coult (2004)	(23) Kirby (1994)
(5) Dunn (1981)	(24) Murray (1926)
(6) Eales (1970a)	(25) Nau (1978)
(7) Eales (1970b)	(26) Scudder (1958)
(8) Eales (2001a)	(27) Sheppard (1978)
(9) Eales (2001b)	(28) Sheppard & Eyre (1983)
(10) Eales (2002)	(29) Sutcliffe (1962)
(11) Eyre & Forrester (1984)	(30) Thompson (1929)
(12) Eyre et al. (2005)	(31) Thompson (1930)
(13) Flanagan (2016)	(32) Thompson (1931)
(14) Hammond (2010)	(33) Thompson (1934)
(15) Heslop Harrison (1916a)	(34) Crisp (1963)
(16) Heslop Harrison (1916b)	(35) Woodroffe (1973)
(17) Heslop Harrison (1930)	(36) Brinkhurst (1959)
(18) Heslop Harrison (1937)	(37) Limbert & Slack (1939)
(19) Heslop Harrison (1963)	(38) Hardy (1870-1874)

During the research for this article a number of new records for other vice-counties were found, which are listed below.

Aradus depressus (Fabricius) (Aradidae) VC66 (28)
Picromerus bidens (Linnaeus) (Pentatomidae) VC66 (4)
Piezodorus lituratus (Fabricius) (Pentatomidae) VC66 (9)
Troilus luridus (Fabricius) (Pentatomidae) VC66 (10)
Gastrodes grossipes (De Geer) (Lygaeidae) VC66 (28)
Campylosteira verna (Fallén) (Tingidae) VC62 (20)
Empicoris culiciformis (De Geer) (Reduviidae) VC66 (28)
Acompocoris pygmaeus (Fallén) (Anthocoridae) VC66 (28)
Anthocoris limbatus Fieber (Anthocoridae) VC66 (28)
Orius majusculus (Reuter) (Anthocoridae) VC66 (33)
Loricula pselaphiformis Curtis (Microphysidae) VC66 (30)
Adelphocoris lineolatus (Goeze) (Miridae) VC66 (28)
Bryocoris pteridis (Fallén) (Miridae) VC66 (30)
Campyloneura virgula (Herrich-Schaeffer) (Miridae) VC66 (28)
Cyllecoris histrionius (Linnaeus) (Miridae) VC66 (28)
Dicyphus constrictus (Boheman) (Miridae) VC66 (28)
Dichrooscytus rufipennis (Fallén) (Miridae) VC66 (28)
Fieberocapsus flaveolus (Reuter) (Miridae) VC62 (20)
Macrotylus solitarius (Meyer-Dür) (Miridae) VC66 (28)
Miris striatus (Linnaeus) (Miridae) VC66 (28)
Neolygus viridis (Fallén) (Miridae) VC66 (28)
Notostira elongata (Geoffroy) (Miridae) VC66 (28)
Orthops basalis (A. Costa) (Miridae) VC66 (28)
Orthops campestris (Linnaeus) (Miridae) VC66 (28)
Orthotylus viridinervis (Kirschbaum) (Miridae) VC66 (28)
Psallus confusus Rieger (Miridae) VC66 (28)
Psallus flavellus Stichel (Miridae) VC66 (28)
Psallus variabilis (Fallén) (Miridae) VC66 (28)

Psallus wagneri Ossiannilsson (Miridae) VC66 (28)
Salda littoralis (Linnaeus) (Saldidae) VC66 (19)
Salda morio Zetterstedt (Saldidae) VC66 (19)
Saldula orthochila (Fieber) (Saldidae) VC65 (5)
Teloleuca pellucens (Fabricius) (Saldidae) VC65 (5)
Notonecta obliqua Thunberg (Notonectidae) VC66 (18)
Arctocoris carinata (C.R. Sahlberg) (Corixidae) VC66 (31)
Corixa dentipes Thomson (Corixidae) VC66 (34)
Cymatia bondsdorffii (C.R. Sahlberg) (Corixidae) VC66 (34)

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**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM A DATA SET PROVIDED BY JOHN CAMPBELL**

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For over three decades, John Campbell was the county recorder for the Hemiptera-Heteroptera in modern administrative Oxfordshire (VC23 and VC22, with small parts of VC24 and VC32). When he chose to retire from the role in January 2013, he handed to me his vast dataset of 43,810 records. I have recently completed an analysis of these, and was pleased to find 19 unpublished records new to the county distribution (Ryan, 2014a & 2014b), which I list below.

Ceraleptus lividus Stein (Coreidae)

OXFORDSHIRE (VC23): 01 July 1997, SU532967, Grass Vetchling Field, Clifton Hampden.

Megalonotus antennatus (Schilling) (Lygaeidae)

BERKSHIRE (VC22): 05 June - 10 July 2003, SU445995, old pit, Tubney Wood, pitfall trap.

Megalonotus praetextatus (Herrich-Schaeffer) (Lygaeidae)

OXFORDSHIRE (VC23): 15 July 2008, SP559102, Oak Farm Field, Beckley.

Megalonotus sabulicola (Thomson) (Lygaeidae)

BERKSHIRE (VC22): 04 July - 25 August 2005, SU4496, East of East Downs, Frilford, pitfall trap.

Nysius ericae (Schilling) (Lygaeidae)

OXFORDSHIRE (VC23): 10 September 1986, SU735747, Henley Road Gravel Pit, Caversham.

Orius vicinus (Ribaut) (Anthocoridae)

OXFORDSHIRE (VC23): 15 May 1984, SP362095, Cogges Manor Farm.

Temnostethus pusillus (Herrich-Schaeffer) (Anthocoridae)

OXFORDSHIRE (VC23): 28 July 1985, SP333168, Wychwood Forest SSSI.

Chlamydatus pulicarius (Fallén) (Miridae)

BERKSHIRE (VC22): 25 September 2003, SU330935, Shellingford New Quarry, Stanford in the Vale.

Globiceps flavomaculatus (Fabricius) (Miridae)

BERKSHIRE (VC22): 1987, SP467012, Lashford Lane Bog, Wootton.

Globiceps fulvicollis Jakovlev (Miridae)

OXFORDSHIRE (VC23): 28 August 1987, SP254234, Kingham railway sidings.

Halticus saltator (Geoffroy) (Miridae)

OXFORDSHIRE (VC23): 05 July 1995, SP274073, Carterton School grassland.

Heterocordylus genistae (Scopoli) (Miridae)

BERKSHIRE (VC22): 08 July 1981, SU275857, Odstone Hill Lane, Berkshire Downs.

Lygus pratensis (Linnaeus) (Miridae)

OXFORDSHIRE (VC23): 13 August 2008, SP5608, Rectory Farm, Oxford.

Lygus wagneri Remane (Miridae)

BERKSHIRE (VC22): 11 October 2010, SU467978, Glebe Field, Marcham.

Megacoelum infusum (Herrich-Schaeffer) (Miridae)

NORTHAMPTONSHIRE (VC32): 16 August 1992, SP4741, Banbury.

Orthops campestris (Linnaeus) (Miridae)

OXFORDSHIRE (VC23): 02 August 1979, SP575128, Otmoor Rifle Range Reserve (Otmoor SSSI).

Psallus luridus Reuter (Miridae)

OXFORDSHIRE (VC23): 19 July 1994, SP244302, Grove Wood, Chastleton.

Salicarus roseri (Herrich-Schaeffer) (Miridae)

NORTHAMPTONSHIRE (VC32): 13 July 1988, SP4741, Banbury.

Saldula pallipes (Fabricius) (Saldidae)

BERKSHIRE (VC22): 11 August 1987, SU523975, Thrupp Gravel Pit, Abingdon.

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THE 2017 HEMIPTERA-HETEROPTERA VICE-COUNTY RECORD ROUNDUP

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The new vice-county records published in 2017, in journals other than the *Hemipterist*, are listed below. In order that as many records as possible are available for the vice-county distribution and atlas to be published in Volume 6 of this journal, records from the March 2018 issue of the *British Journal of Entomology and Natural History* are also included.

- Sciocoris homalonotus* Fieber (Pentatomidae): West Kent (VC16) (Bantock & Kenward, 2017). New to the British Isles.
- Troilus luridus* (Fabricius) (Pentatomidae): South Wiltshire (VC8) (Ryan, 2018b).
- Leptoglossus occidentalis* Heidemann (Coreidae): Oxfordshire (VC23) (George, 2017).
- Syromastus rhombeus* (Linnaeus) (Coreidae): South Wiltshire (VC8) (Ryan, 2018b).
- Corizus hyoscyami* (Linnaeus) (Rhopalidae): South Wiltshire (VC8) (Ryan, 2018b).
- Nysius cymoides* (Spinola) (Lygaeidae): Antrim (VCH39) (Bantock, 2017).
- Oxycarenus modestus* (Fallén) (Lygaeidae): Middlesex (VC21) (Denton, 2018). New to the British Isles.
- Orsillus depressus* (Mulsant & Rey) (Lygaeidae): South Wiltshire (VC8) (Ryan, 2018b).
- Anthocoris minki* Dohrn (Anthocoridae): South-east Yorkshire (VC61) (Ryan, 2018a).
- Adelphocoris quadripunctatus* (Fabricius) (Miridae): Glamorgan (VC41), East Sussex (VC14) and Surrey (VC17) (Lawrence, *et al.*, 2017). New to the British Isles.
- Chlamydatus evanescens* (Boheman) (Miridae): South Wiltshire (VC8) and West Sussex (VC13) (Ryan, 2018b).
- Dichrooscytus gustavi* Josifov (Miridae): South Wiltshire (VC8) (Ryan, 2018b).
- Orthotylus caprai* Wagner (Miridae): South Wiltshire (VC8) (Ryan, 2018b).

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- Denton, J. 2018. *Oxycarenus modestus* (Hemiptera: Lygaeidae) new to Britain from Middlesex. *British Journal of Entomology and Natural History* **31**: 37-38.
- George, A. M. 2017. Exhibit. *British Journal of Entomology and Natural History* **30**: 100.
- Lawrence, C., Olds, L. T. & Bantock, T. 2017. *Adelphocoris quadripunctatus* (Heteroptera: Miridae) — a species new to Britain. *British Journal of Entomology and Natural History* **30**: 23-26.
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- Ryan, R. P. 2018b. Some interesting Hemiptera-Heteroptera from a cemetery in Salisbury, Wiltshire. *British Journal of Entomology and Natural History* **31**: 38-39.

**A SPECIAL INDEX FOR HET NEWS, NEWSLETTER OF THE UK HETEROPTERA
RECORDING SCHEMES (THIRD SERIES)**

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Introduction

The following special index was compiled from the three issues of Het News (Third Series), numbered 21 to 23, which appeared in April 2014, April 2015 and April 2016. The index is 'special' in the sense that it deals only with the names of the bugs. No other aspects are indexed, and only British species are included. The nomenclature and ordering of species is the same as that used in Ryan (2014)

The format of the page numbering is the digital number of the issue, followed by the digital page number within the issue, separated by a hyphen. So, for example, page 5 of issue 22 is written 22-5. The index was generated automatically within Microsoft® Office Word 2007, using a concordance table which included the known synonyms for the species. All the newsletter issues were converted into a single Word document, divided into three sections, one for each of the issues. The AutoMark and Insert Index options were then used to generate the index.

Given this method of compilation, the index is prone to omission due to differences in spelling of species names in the newsletter issues. The index was therefore checked against the issues, and any missing entries were added manually. This checking was also done for the special index of Het News (Second Series) (Ryan, 2017b), which was generated in a similar manner, and the missing entries have been included here.

Portable document format (PDF) copies of the issues of the newsletter can be downloaded from the British Bugs website (<http://www.britishbugs.org.uk/HetNews.html>). I very much hope that this special index, in combination with those of the Heteroptera Study Group Newsletter (Ryan, 2017a) and Het News (Second Series) (Ryan, 2017b), will help to make the newsletters of the UK Heteroptera recording schemes more accessible to those interested in the British Hemiptera-Heteroptera.

The special index

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COREIDAE

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- Dicranocephalus medius* (Mulsant & Rey): 22-1; 22-5; 22-10.

LYGAEIDAE

- Aphanus rolandri* (Linnaeus): 8-11.
Arocatus longiceps Stål: 21-5; 21-6; 23-1; 23-5; 23-7.
Chilacis typhae (Perris): 1-6; 23-11; 23-12.
Drymus pumilio Puton: 21-1; 21-6; 22-1; 22-6.
Emblethis griseus (Wolff): 23-8.

LYGAEIDAE (CONTINUED)

- Eremocoris fenestratus* (Herrich-Schaeffer): 22-8; 23-1; 23-5; 23-6.
Heterogaster artemisiae Schilling: 13-11; 14-11; 15-13.
Heterogaster urticae (Fabricius): 21-9.
Ischnodemus sabuleti (Fallén): 4-6; 22-1; 22-5; 22-12; 23-13.
Lasiosomus enervis (Herrich-Schaeffer): 23-7.
Macrodera microptera (Curtis): 10-6.
Megalonotus antennatus (Schilling): 11-12; 22-6; 23-12.
Megalonotus chiragra (Fabricius): 21-6; 22-11.
Megalonotus dilatatus (Herrich-Schaeffer): 17/18-8; 21-6; 22-11.
Megalonotus emarginatus (Rey): 21-6.
Megalonotus praetextatus (Herrich-Schaeffer): 21-6.
Megalonotus sabulicola (Thomson): 21-1; 21-6.
Metopoplax ditomoides (A.Costa): 11-14; 13-10.
Nysius cymoides (Spinola): 2-4; 2-5.
Nysius ericae (Schilling): 2-4; 2-5; 4-7.
Nysius graminicola (Kolenati): 2-4; 2-5.
Nysius helveticus (Herrich-Schaeffer): 2-4.
Nysius huttoni F.B.White: 21-1; 21-6; 22-1; 22-5; 23-1; 23-5; 23-12.
Nysius senecionis (Schilling): 2-4; 2-5; 4-7; 23-5.
Nysius thymi (Wolff): 2-4; 2-5; 23-12.
Orsillus depressus (Mulsant & Rey): 11-14.
Ortholomus punctipennis (Herrich-Schaeffer): 22-1; 22-5.
Peritrechus geniculatus (Hahn): 23-10.
Peritrechus lundii (Gmelin): 22-11.
Peritrechus nubilus (Fallén): 5-6; 11-14; 23-1; 23-7.
Raglius alboacuminatus (Goeze): 4-8.
Rhyparochromus pini (Linnaeus): 11-12.
Rhyparochromus vulgaris (Schilling): 21-1; 21-6; 22-1; 22-6.
Scolopostethus pictus (Schilling): 22-6; 22-11; 23-1; 23-6; 23-7; 23-11.
Stygnocoris rusticus (Fallén): 9-15.
Taphropeltus contractus (Herrich-Schaeffer): 22-10.
Trapezonotus ullrichi (Fieber): 23-8.

BERYTIDAE

- Berytinus clavipes* (Fabricius): 21-9.
Berytinus montivagus (Meyer-Dür): 23-5.
Berytinus signoreti (Fieber): 22-8.
Neides tipularius (Linnaeus): 23-12.

PIESMATIDAE

- Parapiesma quadratum* (Fieber): 23-11.

TINGIDAE

- Acalypta parvula* (Fallén): 23-5.
Acalypta platycheila (Fieber): 22-1; 22-6.
Corythucha ciliata (Say): 9-14; 10-2.
Lasiacantha capucina (Germar): 21-1; 21-8.
Physatocheila dumetorum (Herrich-Schaeffer): 23-12.
Stephanitis takeyai Drake & Maa: 21-1; 21-8.
Tingis reticulata Herrich-Schaeffer: 22-7.

REDUVIIDAE

- Coranus aethiops* Jakovlev: 21-1; 21-2; 21-3.
Coranus subapterus (De Geer): 21-3; 23-11.

REDUVIIDAE (CONTINUED)

- Coranus woodroffei* P.V.Putshkov: 21-3.
Empicoris baerensprungi (Dohrn): 3-6; 4-10.
Reduvius personatus (Linnaeus): 11-11.

NABIDAE

- Himacerus boops* (Schjødte): 22-7.
Himacerus mirmicoides (O.Costa): 17/18-26; 21-1; 21-7; 21-8.
Nabis capsiformis Germar: 22-3; 23-3.
Nabis limbatus Dahlbom: 17/18-26.

ANTHOCORIDAE

- Anthocoris butleri* Le Quesne: 21-8.
Anthocoris limbatus Fieber: 21-9.
Anthocoris simulans Reuter: 21-9; 22-12.
Cardiastethus fasciiventris (Garbiglietti): 14-8.
Orius horvathi (Reuter): 22-2.
Orius niger (Wolff): 22-5.

CIMICIDAE

- Cimex columbarius* Jenyns: 10-13.

MICROPHYSIDAE

- Loricula exilis* (Fallén): 11-13; 17/18-25.

MIRIDAE

- Acetropis gimmerthalii* (Flor): 21-9; 22-12.
Campyloneura virgula (Herrich-Schaeffer): 23-1.
Capsodes gothicus (Linnaeus): 21-1; 21-7.
Charagochilus gyllenhalii (Fallén): 22-11.
Chlamydatius evanescens (Boheman): 22-1; 22-6; 22-8; 22-9; 23-10; 23-12.
Chlamydatius pullus (Reuter): 23-5.
Chlamydatius wilkinsoni (Douglas & Scott): 22-11.
Closterotomus norwegicus (Gmelin): 2-7; 17/18-25; 19/20-8.
Closterotomus trivialis (A.Costa): 23-13.
Conostethus brevis Reuter: 22-12.
Conostethus griseus Douglas & Scott: 22-12.
Conostethus venustus (Fieber): 22-7; 23-5; 23-13.
Cyrtorhinus caricis (Fallén): 21-8; 22-9.
Deraeocoris flavilinea (A.Costa): 16-13; 21-1; 21-7; 23-12; 23-13.
Deraeocoris ruber (Linnaeus): 23-13.
Dichroscytus gustavi Josifov: 22-11.
Dicyphus annulatus (Wolff): 13-8; 22-11; 23-2.
Dicyphus constrictus (Boheman): 23-2.
Dicyphus epilobii Reuter: 23-2.
Dicyphus errans (Wolff): 23-2.
Dicyphus escalerae Lindberg: 23-2; 23-4.
Dicyphus globulifer (Fallén): 23-2.
Dicyphus pallicornis (Fieber): 13-8; 23-2.
Dicyphus pallidus (Herrich-Schaeffer): 22-8; 22-9; 23-2.
Dicyphus stachydis J.Sahlberg: 23-2.
Dicyphus tamaninii Wagner: 23-2; 23-4.
Dryophilocoris flavoquadrimaculatus (De Geer): 17/18-26.
Fieberocapsus flaveolus (Reuter): 19/20-7.
Globiceps fulvicollis Jakovlev: 22-1; 22-6.

MIRIDAE (CONTINUED)

- Globiceps juniperi* Reuter: 9-6.
Hallodapus montandoni Reuter: 11-13; 22-1; 22-6.
Hallodapus rufescens (Burmeister): 23-13.
Halticus apterus (Linnaeus): 22-11.
Hoplomachus thunbergii (Fallén): 22-1; 22-6.
Lopus decolor (Fallén): 21-9; 22-12.
Lygocoris rugicollis (Fallén): 22-11.
Lygus maritimus Wagner: 3-11; 22-5; 23-11.
Lygus pratensis (Linnaeus): 3-11; 23-5; 23-12.
Lygus punctatus (Zetterstedt): 3-11.
Lygus rugulipennis Poppius: 3-11; 22-5.
Lygus wagneri Remane: 3-11.
Macrolophus pygmaeus (Rambur): 6-8; 21-9; 22-12; 23-2; 23-13.
Macrolophus rubi Woodroffe: 19/20-7; 21-9; 22-12; 23-2.
Macrotylus solitarius (Meyer-Dür): 21-1; 21-6.
Megacoelum beckeri (Fieber): 21-9; 22-12.
Megaloceroea recticornis (Geoffroy): 21-9; 22-12.
Megalocoleus tanaceti (Fallén): 22-11.
Miridius quadrivirgatus (A.Costa): 16-12; 22-10; 23-10.
Monosynamma sabulicola (Wagner): 21-1.
Neolygus contaminatus (Fallén): 17/18-25.
Notostira elongata (Geoffroy): 21-3; 23-11.
Notostira erratica (Linnaeus): 21-1; 21-3; 21-9; 23-10; 23-11.
Oncotylus viridiflavus (Goeze): 23-11.
Orthops basalis (A.Costa): 11-13; 21-8.
Orthotylus adenocarpi (Perris): 17/18-26; 23-11.
Orthotylus caprai Wagner: 9-9.
Orthotylus junipericola Linnavuori: 21-1; 21-3.
Orthotylus prasinus (Fallén): 21-8.
Orthotylus rubidus (Puton): 2-8.
Pachytomella parallela (Meyer-Dür): 22-1; 22-6; 23-11.
Phytocoris dimidiatus Kirschbaum: 21-8.
Pinalitus rubricatus (Fallén): 22-11.
Plagiognathus chrysanthemi (Wolff): 23-8.
Platycranus bicolor (Douglas & Scott): 21-8.
Psallus albicinctus (Kirschbaum): 21-8.
Psallus anaemicus Seidenstucker: 22-3; 23-7.
Psallus assimilis Stichel: 17/18-7; 22-11.
Psallus betuleti (Fallén): 17/18-21.
Psallus flavellus Stichel: 19/20-6.
Psallus haematodes (Gmelin): 22-12.
Psallus helenae Josifov: 22-3; 22-4.
Psallus lucanicus Wagner: 23-4.
Psallus montanus Josifov: 21-8.
Psallus perrisi (Mulsant & Rey): 17/18-7.
Psallus pseudoplatani Reichling: 22-11.
Psallus varians (Herrich-Schaeffer): 17/18-7.
Pseudoloxops coccineus (Meyer-Dür): 21-8.
Strongylocoris leucocephalus (Linnaeus): 23-11.
Teratocoris saundersi Douglas & Scott: 23-11.
Trigonotylus caelestialium (Kirkaldy): 7-15.
Tropidosteptes pacificus (Van Duzee): 19/20-6; 19/20-9; 21-1; 21-6.
Tupiocoris rhododendri (Dolling): 23-2; 23-11.
Tuponia mixticolor (A.Costa): 3-5.

MIRIDAE (*CONTINUED*)

Tytthus pygmaeus (Zetterstedt): 11-14.

DIPSOCORIDAE

Pachycoleus waltli Fieber: 9-5; 16-12; 23-12.

SALDIDAE

Chartoscirta cincta (Herrich-Schaeffer): 23-11; 23-12.

Halosalda lateralis (Fallén): 21-9.

Salda littoralis (Linnaeus): 4-3; 19/20-8; 23-12.

Salda morio Zetterstedt: 23-7.

Salda muelleri (Gmelin): 23-7.

Saldula c-album (Fieber): 23-11.

Saldula opacula (Zetterstedt): 23-11; 23-12.

Saldula orthochila (Fieber): 22-9.

HYDROMETRIDAE

Hydrometra gracilenta Horváth: 9-5.

VELIIDAE

Microvelia pygmaea (Dufour): 22-12.

Microvelia reticulata (Burmeister): 3-6.

GERRIDAE

Aquarius najas (De Geer): 22-12.

Aquarius paludum (Fabricius): 15-12; 22-7; 22-11; 22-12.

Gerris lacustris (Linnaeus): 11-16.

Gerris lateralis Schummel: 22-6.

Limnopus rufoscutellatus (Latreille): 21-9; 22-12; 23-13.

NEPIDAE

Ranatra linearis (Linnaeus): 6-7; 23-11; 23-12.

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus): 6-7.

Naucoris maculatus Fabricius: 5-8.

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius): 19/20-12.

NOTONECTIDAE

Notonecta glauca Linnaeus: 7-1.

Notonecta maculata Fabricius: 23-12.

CORIXIDAE

Arctocorisa germari (Fieber): 17/18-22.

Callicorixa praeusta (Fieber): 1-5; 22-9.

Corixa panzeri Fieber: 21-9.

Glaenocorisa cavifrons (Thomson): 3-8; 7-17.

Glaenocorisa propinqua (Fieber): 3-8.

Hesperocorixa castanea (Thomson): 11-13.

Hesperocorixa sahlbergi (Fieber): 22-9.

Micronecta minutissima (Linnaeus): 3-6.

Micronecta poweri (Douglas & Scott): 1-4.

Micronecta scholtzi (Fieber): 12-18.

CORIXIDAE (CONTINUED)

- Paracorixa concinna* (Fieber): 11-13.
Sigara distincta (Fieber): 9-11.
Sigara dorsalis (Leach): 7-1; 22-9.
Sigara falleni (Fieber): 22-11.
Sigara fossarum (Leach): 5-8.
Sigara iactans Jansson: 22-11; 22-12.
Sigara lateralis (Leach): 22-9.
Sigara limitata (Fieber): 22-9.
Sigara nigrolineata (Fieber): 9-11; 22-9.
Sigara scotti (Douglas & Scott): 19/20-8.
Sigara venusta (Douglas & Scott): 22-12.

References

- Ryan, R. P. 2014. A list of the species of Hemiptera-Heteroptera recorded in the British Isles. *Hemipterist* **1**: 2-14.
Ryan, R. P. 2017a. A special index for the Heteroptera Study Group Newsletter. *Hemipterist* **4**: 1-14.
Ryan, R. P. 2017b. A special index for Het News, newsletter of the UK Heteroptera Recording Schemes (Second Series). *Hemipterist* **4**: 67-80.

**TWO NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM NATIONAL TRUST SITES**

STUART WARRINGTON

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I recently sent a set of records of Hemiptera-Heteroptera to Rob Ryan for checking against the county distribution (Ryan 2014a & 2014b), who returned two new vice-county records, which I list below.

Aradus depressus (Fabricius) (Aradidae)

NORTH ESSEX (VC19): 27/07/2017, TL526186, Hatfield Forest, Wall Wood (north), under bark of large log.

Aquarius paludum (Fabricius) (Gerridae)

NORTH SOMERSET (VC6): 02/09/2017, ST637267, North Cadbury Court Pond, netted from boat in the centre.

References

- Ryan, R. P. 2014a. The county distribution of the Hemiptera-Heteroptera of the British Isles, fourth edition. *Hemipterist* **1**: 38-103.
Ryan, R. P. 2014b. An Atlas of the Hemiptera-Heteroptera of the British Isles. <https://sites.google.com/site/BritishHetBugAtlas>.

SOME RECORDS OF HEMIPTERA-HETEROPTERA FROM SHROPSHIRE

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I recently sent a spreadsheet of records to Rob Ryan for checking against the county distribution (Ryan 2014a & 2014b). These were found to include 121 new records for Shropshire (VC40), which are listed below.

ARADIDAE

Aneurus avenius (Dufour): 01/08/2008, SJ558036, Stevenshill, Cound.
Aradus depressus (Fabricius): 1991, SJ5510, Attingham Park.

LYGAEIDAE

Acompus rufipes (Wolff): 24/06/2016, SJ639130, Wellington, Dothill & Beanhill Valley.
Chilacis typhae (Perris): 30/07/1992, SJ493364, Whixall Moss.
Cymus claviculus (Fallén): 01/07/1985, SJ542093, Attingham Park.
Cymus glandicolor Hahn: 08/08/1979, SJ4330, Sweat Mere.
Cymus melanocephalus Fieber: 17/07/1985, SO399838, Hopesay Hill.
Drymus pumilio Puton: 26/10/2016, SJ672048, Coalbrookdale, Dale Coppice.
Drymus sylvaticus (Fabricius): 21/09/1985, SJ540130, Haughmond Hill.
Eremocoris podagricus (Fabricius): 11/05/2016, SO754839, Severn Valley Country Park.
Ischnodemus sabuleti (Fallén): 01/07/1985, SJ542093, Attingham Park.
Lasiosomus enervis (Herrich-Schaeffer): 05/03/2016, SJ284281, Morda.
Megalonotus emarginatus (Rey): 14/05/2017, SJ252243, Nant Mawr Visitor Centre.
Nysius ericae (Schilling): 08/09/2010, SO355978, Bog Mine.
Nysius huttoni F.B. White: 19/07/2017, SJ653304, Ternhill Quarry.
Nysius senecionis (Schilling): 11/06/2007, SJ5536, Prees Heath.
Nysius thymi (Wolff): 01/08/1990, SO514743, Ludlow.
Orsillus depressus (Mulsant & Rey): 01/06/2012, SJ554126, Upton Magna.
Plinthisus brevipennis (Latreille): 01/07/1985, SO4293, The Long Mynd.
Scolopostethus affinis (Schilling): 18/06/1984, SO763770, Chamberline.
Scolopostethus grandis Horváth: 19/04/2017, SJ272230, Llynclys, Blackbridge Quarry.
Scolopostethus puberulus Horváth: 26/10/2016, SJ672048, Coalbrookdale, Dale Coppice.
Stygnocoris rusticus (Fallén): 1985, SJ314250, Montgomery Canal.
Taphropeltus contractus (Herrich-Schaeffer): 31/08/1999, SJ642094, Ercall LNR.
Trapezonotus arenarius (Linnaeus): 13/08/2011, SO740777, Wyre Forest, Longdon orchard.
Trapezonotus desertus Seidenstücker: 17/07/1990, SJ393199, Hopton Hill.

BERYTIDAE

Berytinus crassipes (Herrich-Schaeffer): 1985, SJ314250, Montgomery Canal.
Berytinus minor (Herrich-Schaeffer): 1996, SJ268213, Llanymynech Heritage Area.
Berytinus signoreti (Fieber): 31/08/2016, SO754836, Severn Valley Country Park.

TINGIDAE

Acalypta parvula (Fallén): 12/10/1988, SJ473343, Wem Moss.
Derephysia foliacea (Fallén): 21/07/1997, SO7177, Silligrove Farm.
Dictyonota strichnocera Fieber: 16/08/1985, SJ6607, Little Wenlock.
Kalama tricornis (Schränk): 1996, SJ268213, Llanymynech Heritage Area.
Physatocheila dumetorum (Herrich-Schaeffer): 29/07/1992, SJ480348, Bettisfield Moss.
Tingis cardui (Linnaeus): 16/08/1985, SJ6607, Little Wenlock.

REDUVIIDAE

- Empicoris culiciformis* (De Geer): 1979, SJ4422, Fenemere.
Empicoris vagabundus (Linnaeus): 1979, SJ4230, Crose Mere.
Reduvius personatus (Linnaeus): 2002, SJ4912, Shrewsbury.

NABIDAE

- Himacerus major* (A. Costa): 29/07/1992, SJ481349, Bettisfield Moss.
Nabis ericetorum Scholtz: 08/06/1987, SJ4734, Wem Moss.
Nabis lineatus Dahlbom: Aug-1984, SO763765, Knowles Coppice.

ANTHOCORIDAE

- Anthocoris sarothamni* Douglas & Scott: 01/07/1985, SO4195, Long Mynd.
Anthocoris simulans Reuter: 19/06/2017, SO669717, Neen Sollars, Neenshilltop.
Anthocoris visci Douglas: 10/07/1997, SO7277, Orchard near The Sturt.
Buchananiella continua (F.B. White): 08/04/2016, SJ642130, Wellington, Dothill & Beanhill Valley.
Cardiastethus fasciiventris (Garbiglietti): 10/03/2012, SJ646127, Wellington, Dothill & Beanhill Valley.
Orius laevigatus (Fieber): 14/08/2006, SO724900, Eardington Quarry.
Orius vicinus (Ribaut): 1996, SJ268213, Llanymynech Heritage Area.
Temnostethus gracilis Horváth: 1996, SJ268213, Llanymynech Heritage Area.
Temnostethus pusillus (Herrich-Schaeffer): 19/08/1988, SO726767, Wyre Forest, North of Lem Hill.
Xylocoridea brevipennis Reuter: 03/07/2015, SO7536877228, Wyre Forest, Longdon Wood.
Xylocoris cursitans (Fallén): 01/07/1985, SJ542093, Attingham Park.
Xylocoris galactinus (Fieber): 18/09/2016, SJ274250, Sweeney Fen.

MICROPHYSIDAE

- Loricula pselaphiformis* Curtis: 1996, SO3485, Walcot Park.

MIRIDAE

- Adelphocoris lineolatus* (Goeze): 21/09/1985, SJ540130, Haughmond Hill.
Alloeotomus gothicus (Fallén): 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Amblytylus nasutus (Kirschbaum): 14/08/2004, SO665947, Morville Hall.
Apolygus lucorum (Meyer-Dür): 1979, SJ4422, Fenemere.
Asciodema obsoleta (Fieber): 16/08/1985, SJ6607, Little Wenlock.
Atractotomus magnicornis (Fallén): Aug-1984, SO763770, Chamberline.
Atractotomus mali (Meyer-Dür): 08/07/2012, SJ466209, Merrington Green.
Atractotomus parvulus Reuter: 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Calocoris roseomaculatus (De Geer): 28/07/2007, SO702770, Malpass, Cleobury Wood.
Campylomma annulicorne (Signoret): 22/07/2017, SJ274200, Llwyn-y-groes.
Closterotomus fulvomaculatus (De Geer): 17/07/2012, SJ729042, Kemberton.
Compsidolon salicellum (Herrich-Schaeffer): 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Conostethus roseus (Fallén): 28/07/2007, SO702770, Malpass, Cleobury Wood.
Deraeocoris flavilinea (A. Costa): 02/06/2011, SJ645126, Wellington, Dothill & Beanhill Valley.
Dicyphus constrictus (Boheman): 01/07/1997, SO3483, Walcot Park.
Europiella artemisiae (Becker): 15/09/2011, SO770947, Wyken.
Fieberocapsus flaveolus (Reuter): 08/09/1992, SJ486353, Whixall Moss.
Globiceps juniperi Reuter: 08/06/1987, SJ4734, Wem Moss.
Hallodapus rufescens (Burmeister): 03/08/1988, SJ473343, Wem Moss.
Harpocera thoracica (Fallén): 08/08/1979, SJ4330, Sweat Mere.
Heterocordylus genistae (Scopoli): 01/07/1985, SO580975, Wenlock Edge, Blakeway Coppice.
Heterocordylus tibialis (Hahn): 01/07/1985, SO4195, Long Mynd.
Hoplomachus thunbergii (Fallén): 01/07/1985, SJ542093, Attingham Park.

MIRIDAE (CONTINUED)

- Hypseloecus visci* (Puton): 14/07/2017, SO685915, Underton.
Macrolophus rubi Woodroffe: 1995, SJ474345, Wem Moss.
Macrotylus solitarius (Meyer-Dür): 16/08/1985, SJ6607, Little Wenlock.
Megacoelum infusum (Herrich-Schaeffer): 31/08/2012, SJ606050, Leighton.
Megaloceroea recticornis (Geoffroy): 28/07/2007, SO702770, Malpass, Cleobury Wood.
Megalocoleus molliculus (Fallén): 27/08/1985, SO544771, Middleton near Ludlow.
Neolygus populi (Leston): 02/06/2011, SJ644126, Wellington, Dothill & Beanhill Valley.
Neolygus viridis (Fallén): 08/08/1979, SJ4330, Sweat Mere.
Oncotylus viridiflavus (Goeze): 08/09/2010, SJ3702, Snailbeach Mine.
Orthocephalus coriaceus (Fabricius): 04/08/2012, SO610998, Blakeway Hollow.
Orthocephalus saltator (Hahn): 20/08/1985, SO763765, Knowles Coppice.
Orthops kalmii (Linnaeus): 1996, SJ268213, Llanymynech Heritage Area.
Orthotylus bilineatus (Fallén): 16/08/2017, SO459939, Church Stretton, Coppice Leasowes.
Orthotylus concolor (Kirschbaum): 06/09/2007, SJ5536, Prees Heath.
Orthotylus flavinervis (Kirschbaum): 1979, SJ4230, Crose Mere.
Orthotylus flavosparsus (C.R. Sahlberg): 1989, SO514743, Ludlow.
Orthotylus nassatus (Fabricius): 01/07/1990, SO514743, Ludlow.
Orthotylus ochrotrichus Fieber: 16/08/1985, SJ2324, Pen-y-bont.
Orthotylus virescens (Douglas & Scott): 16/08/1985, SJ6607, Little Wenlock.
Orthotylus viridinervis (Kirschbaum): 01/07/1990, SJ4314, Preston Montford.
Phoenicocoris obscurellus (Fallén): 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Phytocoris reuteri Saunders: 22/08/2012, SO286820, Bicton.
Phytocoris varipes Boheman: 16/08/1985, SJ6607, Little Wenlock.
Pilophorus perplexus Douglas & Scott: Aug-1984, SO763765, Knowles Coppice.
Pinalitus cervinus (Herrich-Schaeffer): 16/08/1985, SJ6607, Little Wenlock.
Polymerus nigrata (Fallén): 29/07/1992, SJ481349, Bettisfield Moss.
Polymerus palustris (Reuter): 01/07/1989, SJ4314, Preston Montford.
Psallus betuleti (Fallén): 03/08/2013, SJ4314, Preston Montford FSC
Psallus falleni Reuter: 08/09/1992, SJ491355, Whixall Moss.
Psallus flavellus Stichel: 22/06/1993, SJ3023, Morton Pool.
Psallus haematodes (Gmelin): 08/08/1979, SJ4330, Sweat Mere.
Psallus lepidus Fieber: 08/08/1979, SJ4908, Bomere Pool.
Psallus mollis (Mulsant & Rey): 03/07/2015, SO7536877228, Wyre Forest, Longdon Wood.
Psallus perrisi (Mulsant & Rey): 22/06/1993, SJ3023, Morton Pool.
Psallus salicis (Kirschbaum): 14/08/2004, SO666944, Morville Hall.
Psallus variabilis (Fallén): 19/08/1988, SO726767, Wyre Forest, North of Lem Hill.
Psallus varians (Herrich-Schaeffer): 18/06/1984, SO763770, Chamberline.
Psallus wagneri Ossiannilsson: 01/07/1997, SO3483, Walcot Park.
Salicarus roseri (Herrich-Schaeffer): 25/06/2017, SJ307339, Gobowen.
Stenodema holsata (Fabricius): 18/06/1984, SO763765, Knowles Coppice.
Sthenarus rotermundi (Scholtz): 20/08/2016, SJ319375, Ifton Meadows.
Trigonotylus ruficornis (Geoffroy): 28/06/2010, SJ3702, Snailbeach Mine
Tytthus pygmaeus (Zetterstedt): 22/06/1993, SJ3023, Morton Pool.

CERATOCOMBIDAE

- Ceratocombus coleoptratus* (Zetterstedt): 26/10/1988, SJ475344, Wem Moss.

References

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR SCOTLAND INTO VICE-COUNTY LISTS FOR VC72 TO VC112

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Introduction

The list of Hemiptera-Heteroptera for Scotland in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. I did not attempt to divide the Scottish list into separate lists for the 41 constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing a list of vice-county records for each Scottish species.

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). In addition, I have changed or omitted some records as follows.

The record of *Aradus corticalis* (Linnaeus) (Aradidae) for VC88 (King, 1917) was changed to *Aradus betuleti* (Linnaeus) on the authority of Hancock (2000b), based upon his examination of the original specimens, thereby removing the former species from the list for Scotland. However, I have not altered the record of *Capsus wagneri* (Remane) (Miridae) for VC104 (Woodroffe, 1962), in spite of the comment by Dolling (1983) that it was erroneous, as no evidence is given in support of this statement. I have removed the early records of *Teratocoris saundersi* Douglas & Scott (Miridae) on account of the confusion over identity presented by the discovery of *Teratocoris caricis* Kirkaldy as British (Woodroffe, 1967b). Specimens of the latter were found standing over the former name in a collection. The former name was not included in the list of ambiguities in Ryan (2015) as the context for that article was the county distribution at that time, in which Scotland existed as a single geographical region. Both species were reported from Scotland by Woodroffe, and there were no grounds for deleting prior records of *T. saundersi* from the whole of the British Isles, since this was clearly a northern species. However, the ambiguity is relevant now that Scotland has been divided into its constituent vice-counties. The records for *T. saundersi* from Grimshaw (1930), McNeill (1963), Norman (1877) & Waterston (1939) have therefore been omitted. The sole record of *Limnopus rufoscutellatus* (Latreille) (Gerridae) for Scotland (Norman, 1880a) has had to be omitted as the location is given only as "Pitlochry", which stands on a vice-county boundary. The old Scottish records for *Megaloceroea recticornis* (Geoffroy) (Miridae) have been regarded as erroneous, in accordance with Nau (2011).

The resulting lists include 2686 distinct vice-county records, compared with 286 records for the Scotland list. The list for Scotland as a whole has lengthened by four, the increase arising from 22 species added to the list and 18 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The vice-county records, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Scotland are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking the records relate to the references from which they were derived, as indicated in Table 1. Unlike the sixteen previous divisions of county lists, the vice-county records have not been de-duplicated, and in many cases the existence of a species in a vice-county is supported by more than one record. There are a total of 3865 individual records in the lists below.

The divided records

Aradus betulae (Linnaeus) (Aradidae)

VC86 (33, 9) VC88 (130, 33, 125, 73, 69, 9, 111) VC95 (67, 9) VC96 (131, 114, 174, 125, 67, 9, 157) VC97 (9) VC106 (9)

Aradus corticalis (Linnaeus) (Aradidae) [DELETED]

Aradus depressus (Fabricius) (Aradidae)

VC88 (33, 69) VC96 (131, 69)

Acanthosoma haemorrhoidale (Linnaeus) (Acanthosomatidae)

VC72 (64, 175) VC73 (175, 86) VC74 (175) VC75 (64, 175, 132, 38) VC76 (175) VC77 (175) VC79 (175) VC80 (175) VC81 (175) VC82 (175) VC83 (175) VC84 (175) VC85 (175, 68) VC86 (64, 175, 86) VC88 (64, 175) VC89 (175) VC92 (175) VC93 (175) VC96 (175, 67) VC97 (175) VC98 (175) VC99 (64, 175) VC100 (175, 86) VC101 (175, 86) VC104 (194, 175, 187, 210, 67, 38) VC112 (175)

Cyphostethus tristriatus (Fabricius) (Acanthosomatidae)

VC72 (173) VC82 (96) VC89 (96) VC92 (121) VC93 (121)

Elasmotethus interstinctus (Linnaeus) (Acanthosomatidae)

VC72 (142, 143, 145) VC73 (104) VC75 (30) VC81 (137) VC85 (22) VC88 (156, 134) VC92 (207, 210) VC95 (193, 167) VC104 (187, 210) VC106 (193, 157)

Elasmucha grisea (Linnaeus) (Acanthosomatidae)

VC72 (142, 143, 145) VC73 (104) VC81 (137) VC85 (22) VC88 (156, 134) VC92 (207, 210) VC95 (167) VC96 (157) VC104 (210) VC106 (157) VC107 (157)

Adomerus biguttatus (Linnaeus) (Cydidae)

VC88 (134, 216)

Dolycoris baccarum (Linnaeus) (Pentatomidae)

VC81 (137, 45) VC85 (45) VC89 (134)

Palomena prasina (Linnaeus) (Pentatomidae)

VC95 (193) VC110 (38)

Pentatoma rufipes (Linnaeus) (Pentatomidae)

VC72 (107, 142, 145, 105) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (156) VC89 (156, 134) VC91 (138) VC92 (206, 210) VC94 (141) VC95 (167, 141) VC96 (35) VC100 (181, 38) VC101 (204) VC103 (139) VC104 (195, 204, 6, 187, 80, 210) VC105 (190, 38, 171) VC106 (157) VC107 (210, 38, 157)

Picromerus bidens (Linnaeus) (Pentatomidae)

VC72 (142, 143, 145) VC73 (104) VC85 (22) VC88 (156) VC92 (123) VC93 (123) VC104 (211)

Piezodorus lituratus (Fabricius) (Pentatomidae)

VC72 (143, 153, 145) VC81 (137) VC82 (45) VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC95 (167, 192) VC98 (45)

Rhacognathus punctatus (Linnaeus) (Pentatomidae)

VC72 (92, 142, 143, 153, 145) VC73 (92) VC85 (92, 22) VC88 (92, 156, 134, 216) VC89 (134) VC97 (92, 188) VC104 (92, 211)

Zicrona caerulea (Linnaeus) (Pentatomidae)

VC72 (143, 145) VC73 (8) VC74 (98) VC79 (8) VC81 (8, 137) VC82 (8) VC83 (8) VC85 (8) VC86 (8, 55) VC87 (45) VC89 (8, 45) VC90 (8) VC96 (8) VC100 (38, 55)

Chilacis typhae (Perris) (Lygaeidae)

VC75 (103) VC76 (103)

Dicranocephalus agilis (Scopoli) (Stenocephalidae) [DELETED]*Acompus rufipes* (Wolff) (Lygaeidae) [DELETED]*Cymus glandicolor* Hahn (Lygaeidae)

VC73 (93, 104) VC82 (93) VC83 (93) VC85 (93) VC89 (93)

Drymus brunneus (R.F. Sahlberg) (Lygaeidae)

VC72 (143, 146) VC73 (104) VC85 (22) VC86 (108) VC88 (156, 135, 216) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC105 (190, 38) VC106 (157)

Drymus ryeii Douglas & Scott (Lygaeidae)

VC73 (103) VC88 (103)

Drymus sylvaticus (Fabricius) (Lygaeidae)

VC72 (147, 146) VC81 (137) VC88 (135) VC89 (135) VC95 (167) VC104 (187, 210) VC105 (38)

Eremocoris abietis (Linnaeus) (Lygaeidae)

VC92 (206, 210, 38) VC95 (199, 206) VC96 (199, 66, 67, 38) VC108 (209)

Eremocoris plebejus (Fallén) (Lygaeidae)

VC73 (106, 104) VC92 (207, 210) VC95 (167, 52, 229) VC96 (200, 114, 172, 67, 157) VC97 (52)

- Gastrodes abietum* Bergroth (Lygaeidae)
VC81 (137) VC88 (135) VC89 (135) VC91 (1) VC95 (1, 169)
- Gastrodes grossipes* (De Geer) (Lygaeidae)
VC72 (142, 146) VC73 (104) VC81 (137) VC85 (22, 156) VC88 (156) VC89 (156) VC90 (156)
VC91 (1) VC92 (1, 210) VC95 (167) VC96 (157) VC104 (187, 210) VC106 (157)
- Heterogaster urticae* (Fabricius) (Lygaeidae)
VC82 (94)
- Ischnocoris angustulus* (Boheman) (Lygaeidae) [DELETED]
- Kleidocerys ericae* (Horváth) (Lygaeidae)
VC72 (153) VC82 (49) VC85 (22) VC86 (108) VC88 (156) VC92 (210) VC106 (157)
- Kleidocerys resedae* (Panzer) (Lygaeidae)
VC81 (137) VC92 (210) VC95 (167)
- Lamproplax picea* (Flor) (Lygaeidae)
VC72 (195, 89, 142, 146, 219, 232) VC88 (156) VC89 (112, 156) VC100 (195, 89) VC104 (195, 89, 187, 210, 38)
- Macrodema microptera* (Curtis) (Lygaeidae)
VC88 (156) VC92 (210) VC95 (167) VC105 (38)
- Megalonotus dilatatus* (Herrich-Schaeffer) (Lygaeidae)
VC88 (46)
- Nysius ericae* (Schilling) (Lygaeidae)
VC88 (156) VC89 (156)
- Nysius thymi* (Wolff) (Lygaeidae)
VC85 (22, 156) VC88 (156) VC92 (207, 210) VC96 (157) VC104 (194, 187, 210) VC107 (157)
- Peritrechus lundii* (Gmelin) (Lygaeidae)
VC81 (137) VC88 (136) VC95 (167)
- Scolopostethus affinis* (Schilling) (Lygaeidae)
VC72 (144, 146) VC81 (137) VC85 (22) VC88 (156)
- Scolopostethus decoratus* (Hahn) (Lygaeidae)
VC72 (144, 146) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (156) VC89 (156) VC92 (210) VC96 (157) VC104 (187, 210, 38) VC106 (157) VC107 (157) VC110 (38, 179)
- Scolopostethus pictus* (Schilling) (Lygaeidae)
VC73 (27)
- Scolopostethus puberulus* Horváth (Lygaeidae) [DELETED]
- Scolopostethus thomsoni* Reuter (Lygaeidae)
VC72 (143, 146, 38) VC81 (137) VC83 (38, 45) VC85 (22, 38) VC88 (156) VC89 (156) VC90 (156) VC96 (157) VC106 (38, 157)
- Stygnocoris fuliginus* (Geoffroy) (Lygaeidae)
VC72 (153) VC81 (137) VC95 (167)
- Stygnocoris rusticus* (Fallén) (Lygaeidae)
VC83 (28) VC85 (22)
- Stygnocoris sabulosus* (Schilling) (Lygaeidae)
VC72 (144, 146, 105) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (35) VC100 (21) VC104 (187, 210, 211) VC105 (190) VC106 (157) VC107 (157) VC110 (38)
- Taphropeltus contractus* (Herrich-Schaeffer) (Lygaeidae)
VC73 (103) VC81 (137) VC83 (45)
- Trapezonotus desertus* Seidenstücker (Lygaeidae)
VC73 (104) VC88 (156) VC96 (157) VC106 (157) VC107 (157)
- Berytinus minor* (Herrich-Schaeffer) (Berytidae)
VC72 (147, 146) VC88 (156)
- Berytinus signoreti* (Fieber) (Berytidae)
VC73 (29) VC82 (45) VC83 (45) VC91 (233) VC95 (168)
- Gampsocoris punctipes* (Germar) (Berytidae)
VC72 (31) VC73 (31) VC74 (31) VC75 (31)

- Parapiesma quadratum* (Fieber) (Piesmatidae)
VC85 (22) VC89 (102, 134) VC91 (233) VC106 (209, 157)
- Piesma maculatum* (Laporte) (Piesmatidae) [NEW]
VC106 (157)
- Acalypta brunnea* (Germar) (Tingidae)
VC83 (38, 47) VC89 (156) VC95 (38, 167) VC105 (65) VC106 (157)
- Acalypta carinata* (Panzer) (Tingidae)
VC73 (104) VC80 (163) VC83 (45) VC88 (156) VC89 (156) VC105 (65)
- Acalypta nigrina* (Fallén) (Tingidae)
VC73 (104) VC85 (22) VC88 (23) VC92 (207, 210) VC95 (23, 233) VC96 (114, 157) VC104 (197, 187, 210) VC105 (88, 65) VC108 (209)
- Acalypta parvula* (Fallén) (Tingidae)
VC72 (143, 147, 146) VC83 (45) VC85 (22) VC89 (156) VC95 (167) VC104 (187, 210) VC110 (38, 48)
- Derephysia foliacea* (Fallén) (Tingidae)
VC72 (142, 146) VC85 (22) VC86 (108) VC88 (134)
- Dictyla convergens* (Herrich-Schaeffer) (Tingidae)
VC89 (134)
- Dictyonota strichnocera* Fieber (Tingidae)
VC95 (168, 233)
- Kalama tricornis* (Schrank) (Tingidae)
VC83 (28)
- Stephanitis rhododendri* Horváth (Tingidae) [DELETED]
- Tingis cardui* (Linnaeus) (Tingidae)
VC72 (144, 146, 105) VC81 (137) VC85 (22, 156) VC88 (156, 134) VC89 (156) VC90 (83) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210) VC105 (190, 38) VC106 (157) VC107 (157) VC110 (38, 179)
- Coranus subapterus* (De Geer) (Reduviidae) [DELETED]
- Empicoris culiciformis* (De Geer) (Reduviidae)
VC83 (95, 186) VC88 (95) VC89 (95, 156)
- Empicoris vagabundus* (Linnaeus) (Reduviidae)
VC72 (142, 148) VC73 (104) VC88 (134) VC89 (156) VC95 (167) VC96 (157) VC106 (157)
- Himacerus major* (A. Costa) (Nabidae)
VC85 (68)
- Himacerus mirmicoides* (O. Costa) (Nabidae) [NEW]
VC73 (29) VC76 (41)
- Nabis ericetorum* Scholtz (Nabidae)
VC72 (147, 148) VC73 (104) VC87 (161) VC88 (156) VC92 (210) VC95 (167) VC96 (157) VC103 (139) VC104 (187, 210)
- Nabis ferus* (Linnaeus) (Nabidae)
VC72 (147) VC81 (137) VC85 (22) VC88 (134) VC92 (210) VC95 (167) VC97 (188) VC100 (38, 21) VC102 (99) VC104 (187, 210) VC110 (38)
- Nabis flavomarginatus* Scholtz (Nabidae)
VC72 (143, 148, 105) VC73 (104) VC77 (181) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 134) VC89 (156) VC92 (210, 138) VC96 (212, 157) VC99 (108) VC103 (139) VC104 (187, 210) VC105 (190) VC106 (157) VC110 (38)
- Nabis limbatus* Dahlbom (Nabidae)
VC72 (107, 153, 148) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 134) VC89 (156) VC90 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100 (38, 21) VC103 (139) VC104 (187, 210) VC105 (190, 171) VC106 (157) VC110 (38)
- Nabis lineatus* Dahlbom (Nabidae) [NEW]
VC88 (134)
- Nabis rugosus* (Linnaeus) (Nabidae)
VC72 (143, 148) VC73 (104) VC81 (137) VC88 (134) VC95 (193, 39, 167) VC104 (187, 210, 39, 38)

Acompocoris alpinus Reuter (Anthocoridae)

VC92 (210) VC95 (38, 167) VC96 (38) VC106 (157)

Acompocoris pygmaeus (Fallén) (Anthocoridae)

VC72 (144, 149) VC73 (104) VC85 (22) VC88 (156, 135) VC89 (156) VC90 (156) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210, 38) VC106 (157) VC107 (157)

Anthocoris confusus Reuter (Anthocoridae)

VC72 (144, 149, 105) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (108, 84, 85) VC87 (181) VC88 (156) VC89 (156) VC92 (210) VC95 (193) VC99 (108) VC102 (99) VC104 (187, 210) VC107 (157)

Anthocoris gallarumulmi (De Geer) (Anthocoridae)

VC81 (137) VC88 (156) VC92 (210) VC106 (157)

Anthocoris nemoralis (Fabricius) (Anthocoridae)

VC72 (147, 149) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (156) VC90 (156) VC92 (210) VC104 (194, 187, 210) VC105 (190) VC106 (157) VC107 (157)

Anthocoris nemorum (Linnaeus) (Anthocoridae)

VC72 (147, 149, 105) VC73 (104) VC77 (181) VC81 (137) VC83 (61) VC85 (22, 156) VC86 (108) VC87 (181, 161) VC88 (156, 135) VC89 (83, 156) VC90 (83, 156) VC92 (210) VC95 (167) VC96 (212, 157) VC99 (108) VC100 (181, 38, 21) VC101 (181) VC102 (99) VC103 (139) VC104 (109, 187, 210) VC105 (190, 171) VC106 (157) VC107 (157) VC110 (38)

Anthocoris pilosus (Jakovlev) (Anthocoridae)

VC110 (117, 38)

Anthocoris sarothamni Douglas & Scott (Anthocoridae)

VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC106 (157)

Elatophilus nigricornis (Zetterstedt) (Anthocoridae)

VC81 (137) VC88 (135, 226) VC89 (135) VC92 (210) VC95 (126, 167) VC96 (203) VC106 (157)

Lyctocoris campestris (Fabricius) (Anthocoridae)

VC72 (147, 149) VC78 (7) VC83 (45) VC89 (156) VC95 (167) VC104 (187, 210, 38)

Temnostethus gracilis Horváth (Anthocoridae)

VC72 (105) VC73 (104) VC75 (116) VC76 (116) VC85 (116) VC86 (108) VC88 (156) VC89 (156) VC92 (210) VC96 (157) VC99 (108) VC100 (116) VC104 (195, 187, 210) VC106 (157) VC110 (116, 37, 38)

Temnostethus pusillus (Herrich-Schaeffer) (Anthocoridae)

VC81 (137) VC85 (116, 37) VC96 (157) VC104 (195, 187, 210) VC110 (37, 38)

Tetrableps bicuspidis (Herrich-Schaeffer) (Anthocoridae)

VC72 (144, 149) VC81 (137) VC82 (45) VC83 (45) VC88 (156) VC92 (210) VC95 (167) VC106 (157)

Xylocoris cursitans (Fallén) (Anthocoridae)

VC80 (2) VC83 (91)

Xylocoris formicetorum (Boheman) (Anthocoridae)

VC88 (40) VC92 (40, 225) VC96 (203)

Xylocoris galactinus (Fieber) (Anthocoridae)

VC88 (63)

Cimex lectularius Linnaeus (Cimicidae)

VC72 (149) VC77 (71, 66) VC88 (66) VC95 (67)

Cimex pipistrelli Jenyns (Cimicidae) [NEW]

VC76 (66) VC88 (66)

Loricula distinguenda (Reuter) (Microphysidae)

VC72 (142, 149) VC88 (156) VC96 (200)

Loricula elegantula (Baerensprung) (Microphysidae)

VC83 (38, 233) VC88 (156) VC89 (156) VC92 (210, 38) VC96 (157) VC104 (210) VC106 (157) VC110 (38)

Loricula exilis (Fallén) (Microphysidae)

VC88 (136) VC92 (210) VC96 (38) VC104 (210, 38) VC106 (157) VC107 (210, 38)

Loricula pselaphiformis Curtis (Microphysidae)

VC72 (142, 153, 149, 105) VC83 (45) VC88 (156, 135, 216) VC89 (156) VC92 (210) VC95 (168)

- VC96 (24, 157, 221) VC104 (187, 210) VC106 (157) VC110 (38)
- Adelphocoris lineolatus* (Goeze) (Miridae)
VC77 (38) VC81 (137) VC85 (22, 38) VC88 (135) VC90 (156)
- Adelphocoris seticornis* (Fabricius) (Miridae)
VC81 (97) VC89 (127, 97, 82)
- Amblytylus brevicollis* Fieber (Miridae)
VC72 (153, 151) VC89 (83) VC90 (83)
- Apolygus lucorum* (Meyer-Dür) (Miridae)
VC72 (147, 150) VC88 (156) VC96 (157) VC106 (157)
- Apolygus spinolae* (Meyer-Dür) (Miridae)
VC81 (137) VC92 (210) VC96 (221) VC106 (157)
- Asciodema obsoleta* (Fieber) (Miridae)
VC72 (142, 151) VC83 (228, 233) VC85 (22) VC86 (108) VC87 (181) VC88 (156, 135) VC89 (156) VC90 (156) VC92 (210) VC96 (157) VC99 (108) VC104 (187, 210, 38) VC106 (157) VC107 (157)
- Atractotomus magnicornis* (Fallén) (Miridae)
VC72 (142, 151, 105) VC73 (104) VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC96 (24) VC106 (157)
- Atractotomus parvulus* Reuter (Miridae)
VC89 (156) VC106 (158, 157)
- Blepharidopterus angulatus* (Fallén) (Miridae)
VC72 (147, 151) VC73 (104) VC81 (137) VC84 (14) VC85 (22, 156) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC104 (187, 210) VC105 (190) VC106 (157) VC107 (157) VC108 (25)
- Bothynotus pilosus* (Boheman) (Miridae)
VC72 (143, 144, 151) VC85 (22, 45) VC88 (112, 156, 135) VC92 (206, 210) VC96 (203, 67, 157) VC99 (215)
- Bryocoris pteridis* (Fallén) (Miridae)
VC72 (142, 151) VC73 (104, 192) VC75 (223) VC81 (137) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC99 (108) VC104 (109, 38) VC106 (157)
- Calocoris alpestris* (Meyer-Dür) (Miridae)
VC77 (3) VC79 (3) VC80 (3) VC81 (3)
- Calocoris roseomaculatus* (De Geer) (Miridae)
VC81 (137) VC85 (22) VC88 (156, 135) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210, 211) VC105 (190) VC106 (157) VC107 (157)
- Camptozygum aequale* (Villers) (Miridae)
VC72 (142, 150) VC85 (22) VC88 (156) VC92 (210) VC95 (167)
- Campyloneura virgula* (Herrich-Schaeffer) (Miridae)
VC73 (104) VC82 (45) VC104 (187, 210, 38) VC106 (157)
- Capsus ater* (Linnaeus) (Miridae)
VC72 (143, 151) VC81 (137) VC83 (61) VC85 (22, 156) VC86 (181) VC88 (156, 135, 216) VC89 (156) VC91 (138) VC92 (210) VC95 (167) VC96 (157) VC97 (188) VC99 (108) VC102 (99) VC104 (109, 187, 210) VC106 (157) VC107 (157)
- Capsus wagneri* (Remane) (Miridae)
VC72 (114, 113) VC104 (196)
- Charagochilus gyllenhalii* (Fallén) (Miridae)
VC72 (142, 150) VC81 (137) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC106 (157) VC107 (157)
- Chlamydatius pulicarius* (Fallén) (Miridae)
VC88 (112, 156) VC92 (210) VC96 (114, 157) VC106 (157)
- Chlamydatius pullus* (Reuter) (Miridae)
VC88 (156, 135, 216) VC89 (156) VC96 (157, 221) VC106 (157)
- Chlamydatius saltitans* (Fallén) (Miridae)
VC75 (223) VC88 (156) VC95 (168)

Chlamydatius wilkinsoni (Douglas & Scott) (Miridae)

VC73 (192) VC85 (68) VC88 (112, 156, 135, 136) VC89 (156) VC92 (210) VC95 (168) VC96 (157, 221) VC104 (194, 187, 210) VC105 (35, 190) VC106 (157) VC107 (157) VC108 (133)

Closterotomus fulvomaculatus (De Geer) (Miridae) [DELETED]

Closterotomus norwegicus (Gmelin) (Miridae)

VC72 (107, 144, 150) VC81 (137) VC83 (61) VC85 (22, 156) VC88 (156) VC89 (83, 156) VC90 (156) VC92 (210) VC95 (167) VC96 (157) VC100 (38, 21) VC102 (165) VC104 (109, 187, 210) VC105 (190, 171) VC106 (157) VC107 (157) VC110 (115, 38, 179) VC111 (38, 233) VC112 (38, 58)

Conostethus brevis Reuter (Miridae)

VC82 (154) VC85 (22) VC93 (154) VC95 (154, 168, 230, 233) VC96 (154) VC105 (154, 38) VC106 (154, 38, 157)

Conostethus griseus Douglas & Scott (Miridae)

VC72 (142, 151)

Cyllocoris histrionius (Linnaeus) (Miridae)

VC72 (144, 151) VC81 (137) VC88 (213, 135) VC89 (135) VC92 (210) VC95 (167)

Cyrtorhinus caricis (Fallén) (Miridae)

VC72 (107) VC73 (104) VC81 (137) VC82 (45) VC84 (14) VC85 (156) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC102 (165) VC104 (187, 210, 38) VC107 (157) VC110 (38)

Deraeocoris lutescens (Schilling) (Miridae) [DELETED]

Deraeocoris scutellaris (Fabricius) (Miridae)

VC81 (137) VC105 (159, 53)

Dichroscytus rufipennis (Fallén) (Miridae)

VC72 (144, 150) VC84 (14) VC85 (22) VC88 (156) VC92 (210) VC95 (167) VC96 (212) VC105 (35, 190, 38)

Dicyphus annulatus (Wolff) (Miridae)

VC81 (137) VC82 (45) VC85 (22) VC88 (156) VC90 (156)

Dicyphus constrictus (Boheman) (Miridae)

VC81 (137) VC82 (45)

Dicyphus epilobii Reuter (Miridae)

VC72 (147, 151) VC81 (137) VC82 (45) VC84 (14) VC85 (70) VC86 (108)

Dicyphus errans (Wolff) (Miridae)

VC104 (109, 38)

Dicyphus globulifer (Fallén) (Miridae)

VC72 (142, 151) VC81 (137) VC89 (156) VC95 (167) VC106 (157)

Dicyphus pallicornis (Fieber) (Miridae)

VC72 (147, 151, 105) VC73 (104, 192) VC81 (137) VC84 (14) VC86 (108) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210, 211) VC106 (157) VC110 (38)

Dicyphus stachydis J. Sahlberg (Miridae)

VC72 (144, 151, 105) VC81 (137) VC88 (156) VC89 (156) VC95 (168) VC106 (157)

Dryophilocoris flavoquadrinaculatus (De Geer) (Miridae)

VC72 (147, 151) VC86 (50)

Globiceps flavomaculatus (Fabricius) (Miridae) [DELETED]

Globiceps fulvicollis Jakovlev (Miridae)

VC92 (206, 210) VC95 (200, 206, 233) VC108 (209)

Globiceps juniperi Reuter (Miridae)

VC92 (206) VC95 (199, 200, 206)

Grypocoris stysi (Wagner) (Miridae)

VC72 (143, 150, 105) VC73 (104) VC81 (137) VC83 (61) VC86 (108) VC88 (156) VC89 (156) VC99 (108) VC106 (157)

Hallodapus rufescens (Burmeister) (Miridae)

VC85 (22) VC87 (49) VC89 (112, 156) VC92 (210) VC96 (157) VC110 (38)

Harpocera thoracica (Fallén) (Miridae)

VC72 (143, 151) VC88 (135) VC89 (135) VC95 (167) VC105 (190, 38)

Heterocordylus genistae (Scopoli) (Miridae)

VC85 (22)

Heterocordylus tibialis (Hahn) (Miridae)

VC72 (142, 151) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167)
VC96 (157) VC106 (157)

Heterotoma planicornis (Pallas) (Miridae)

VC89 (83) VC90 (83)

Leptopterna dolabrata (Linnaeus) (Miridae)

VC72 (153, 150, 105) VC73 (104) VC81 (137) VC85 (22) VC88 (156) VC89 (156) VC92 (210)
VC96 (157) VC99 (108) VC102 (165) VC106 (38, 157) VC107 (157)

Leptopterna ferrugata (Fallén) (Miridae)

VC72 (147, 150, 105) VC85 (22) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96
(212, 157) VC99 (108) VC102 (99) VC104 (195, 109, 187, 210, 43) VC105 (190) VC106 (157)
VC107 (157) VC110 (179) VC111 (233) VC112 (38, 233)

Liocoris tripustulatus (Fabricius) (Miridae)

VC72 (142, 151) VC73 (104) VC81 (137) VC85 (22, 156) VC88 (156) VC89 (156) VC96 (157)
VC106 (157)

Lopus decolor (Fallén) (Miridae) [NEW]

VC72 (105) VC88 (156)

Lygocoris pabulinus (Linnaeus) (Miridae)

VC72 (144, 150, 105) VC73 (104) VC76 (181) VC77 (181) VC81 (137) VC83 (61) VC85 (22)
VC86 (108) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100
(38, 21) VC104 (187, 210) VC106 (157) VC110 (38)

Lygocoris rugicollis (Fallén) (Miridae)

VC72 (153, 150) VC85 (22) VC86 (181, 108) VC88 (156) VC89 (156) VC92 (210) VC95 (167,
168) VC96 (203, 157) VC99 (108) VC100 (38, 223) VC104 (187, 210) VC105 (190) VC106 (157)
VC110 (38)

Lygus maritimus Wagner (Miridae)

VC72 (107) VC85 (22) VC88 (156) VC90 (156) VC106 (157)

Lygus pratensis (Linnaeus) (Miridae) [NEW]

VC92 (207)

Lygus punctatus (Zetterstedt) (Miridae)

VC92 (207, 210) VC96 (200, 114, 157)

Lygus rugulipennis Poppius (Miridae)

VC72 (107) VC73 (104) VC81 (137) VC85 (22) VC86 (181, 108) VC88 (156) VC89 (156) VC90
(156) VC92 (210) VC96 (118) VC104 (194, 187, 210, 38) VC106 (157) VC110 (38)

Lygus wagneri Remane (Miridae) [NEW]

VC80 (163) VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC104 (194, 187, 210, 38) VC106
(157)

Macrotylus paykullii (Fallén) (Miridae) [NEW]

VC72 (142, 151)

Malacocoris chlorizans (Panzer) (Miridae)

VC72 (147, 151) VC81 (137) VC83 (233) VC88 (156, 135) VC89 (83, 156) VC95 (167)

Mecomma ambulans (Fallén) (Miridae)

VC72 (142, 151) VC73 (104) VC77 (181) VC81 (137) VC83 (61) VC85 (22, 156) VC86 (181,
108) VC88 (156, 135, 216) VC89 (156) VC90 (156) VC92 (210) VC95 (167) VC96 (203, 157)
VC99 (108) VC100 (38, 21, 223) VC104 (109, 187, 210) VC105 (190) VC106 (157) VC109 (209)
VC110 (115, 38, 179) VC111 (38, 233) VC112 (38, 233)

Mecomma dispar (Boheman) (Miridae)

VC72 (147, 151, 38) VC88 (156) VC89 (112, 156) VC92 (210) VC95 (195, 38, 233) VC96 (203,
38, 157) VC104 (195, 187, 210, 38)

Megaloceroea recticornis (Geoffroy) (Miridae) [DELETED]

Megalocoleus molliculus (Fallén) (Miridae)

VC88 (156, 135) VC90 (156)

- Megalocoleus tanacetii* (Fallén) (Miridae)
VC88 (156)
- Miris striatus* (Linnaeus) (Miridae)
VC81 (137) VC83 (45) VC85 (22) VC88 (135) VC95 (167)
- Monalocoris filicis* (Linnaeus) (Miridae)
VC72 (142, 151) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (108) VC88 (213, 156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC104 (109) VC106 (157)
- Neolygus contaminatus* (Fallén) (Miridae)
VC72 (147, 150) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (212, 167) VC96 (157) VC103 (139) VC104 (187, 210) VC105 (25, 190) VC106 (157) VC107 (157) VC108 (25) VC110 (38)
- Neolygus viridis* (Fallén) (Miridae)
VC72 (147, 150) VC83 (45) VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC97 (35) VC104 (210) VC105 (190)
- Notostira elongata* (Geoffroy) (Miridae) [NEW]
VC83 (61)
- Orthocephalus coriaceus* (Fabricius) (Miridae)
VC88 (136) VC95 (167)
- Orthocephalus saltator* (Hahn) (Miridae)
VC88 (156, 135) VC95 (233) VC96 (157)
- Orthonotus rufifrons* (Fallén) (Miridae) [NEW]
VC72 (147, 151)
- Orthops basalis* (A. Costa) (Miridae)
VC85 (208, 156) VC88 (156) VC89 (156) VC90 (156) VC92 (207, 208, 210, 38) VC106 (157) VC109 (209)
- Orthops campestris* (Linnaeus) (Miridae)
VC85 (156) VC88 (156) VC89 (156) VC90 (156) VC92 (210) VC96 (157) VC104 (210, 38) VC106 (157) VC107 (157) VC110 (38)
- Orthops kalmii* (Linnaeus) (Miridae) [NEW]
VC106 (38)
- Orthotylus adenocarpi* (Perris) (Miridae)
VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC106 (157)
- Orthotylus bilineatus* (Fallén) (Miridae)
VC73 (192) VC88 (156, 135, 220) VC92 (210) VC95 (167) VC96 (157, 221) VC106 (157, 220)
- Orthotylus concolor* (Kirschbaum) (Miridae) [DELETED]
- Orthotylus ericetorum* (Fallén) (Miridae)
VC72 (144, 151, 105) VC73 (104) VC85 (22) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210) VC106 (157) VC107 (157) VC110 (38)
- Orthotylus flavinervis* (Kirschbaum) (Miridae)
VC88 (135) VC96 (157)
- Orthotylus fuscescens* (Kirschbaum) (Miridae)
VC88 (112, 156, 136) VC92 (210) VC95 (167, 231) VC96 (200, 54, 212, 67, 157) VC106 (157)
- Orthotylus marginalis* Reuter (Miridae)
VC85 (156) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (38) VC103 (139) VC104 (187, 210) VC105 (25) VC106 (157) VC107 (157) VC108 (25)
- Orthotylus nassatus* (Fabricius) (Miridae)
VC81 (137) VC95 (38)
- Orthotylus tenellus* (Fallén) (Miridae)
VC88 (135) VC89 (156) VC92 (210) VC95 (167) VC106 (157)
- Orthotylus virens* (Fallén) (Miridae) [NEW]
VC72 (235) VC79 (235)
- Orthotylus virescens* (Douglas & Scott) (Miridae)
VC72 (147, 151) VC85 (22) VC87 (181) VC88 (156) VC89 (156) VC90 (156) VC92 (210) VC96 (157) VC106 (157) VC107 (157)

- Orthotylus viridinervis* (Kirschbaum) (Miridae)
VC81 (137)
- Pachytomella parallela* (Meyer-Dür) (Miridae)
VC72 (107) VC77 (34) VC80 (36) VC85 (22, 156, 38) VC88 (112, 213, 156) VC89 (156) VC92 (210) VC96 (157) VC106 (157) VC108 (133)
- Pantilius tunicatus* (Fabricius) (Miridae)
VC95 (170)
- Parapsallus vitellinus* (Scholtz) (Miridae) [NEW]
VC89 (156)
- Phoenicocoris obscurellus* (Fallén) (Miridae)
VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC106 (157)
- Phylus coryli* (Linnaeus) (Miridae)
VC81 (137) VC88 (156, 135) VC89 (156) VC95 (167) VC96 (157) VC106 (157)
- Phylus melanocephalus* (Linnaeus) (Miridae)
VC72 (144, 151) VC81 (137) VC83 (45) VC84 (14) VC88 (213, 156, 135) VC89 (156, 135) VC92 (210) VC95 (167) VC97 (35) VC106 (157)
- Phytocoris dimidiatus* Kirschbaum (Miridae)
VC83 (233) VC84 (14) VC96 (200)
- Phytocoris longipennis* Flor (Miridae)
VC72 (143, 150) VC81 (137) VC83 (233) VC86 (181) VC88 (156, 135) VC89 (156) VC90 (156) VC95 (233) VC96 (157) VC104 (187, 210)
- Phytocoris pini* Kirschbaum (Miridae)
VC72 (153, 150) VC84 (14) VC85 (22, 156) VC88 (156, 135) VC92 (210, 224) VC95 (128, 167) VC96 (128, 157) VC105 (35, 190, 38) VC106 (157)
- Phytocoris populi* (Linnaeus) (Miridae)
VC72 (153) VC83 (233) VC92 (210)
- Phytocoris reuteri* Saunders (Miridae)
VC72 (142, 150)
- Phytocoris tiliae* (Fabricius) (Miridae)
VC72 (144, 150, 105) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (135) VC89 (156) VC95 (167) VC96 (35, 157)
- Phytocoris ulmi* (Linnaeus) (Miridae)
VC72 (144, 150) VC73 (104) VC82 (45) VC85 (45)
- Phytocoris varipes* Boheman (Miridae) [NEW]
VC73 (29) VC104 (210, 38)
- Pilophorus cinnamopterus* (Kirschbaum) (Miridae)
VC83 (122, 124)
- Pilophorus clavatus* (Linnaeus) (Miridae)
VC87 (45) VC88 (112, 156)
- Pinalitus cervinus* (Herrich-Schaeffer) (Miridae)
VC72 (147, 150) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (83, 156) VC91 (233) VC92 (210) VC95 (167) VC100 (38) VC104 (194, 187, 210, 38) VC106 (157)
- Pinalitus rubricatus* (Fallén) (Miridae)
VC72 (147, 150) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (156) VC96 (172, 24) VC104 (187, 210) VC106 (157)
- Pithanus maerkelii* (Herrich-Schaeffer) (Miridae)
VC72 (107, 144, 151) VC73 (104) VC81 (137) VC82 (45, 51) VC85 (22, 51) VC86 (181) VC88 (213, 156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC102 (165, 99) VC104 (109, 187, 210) VC105 (190) VC106 (157) VC107 (157) VC110 (38, 179) VC111 (38, 233) VC112 (38, 233)
- Plagiognathus arbustorum* (Fabricius) (Miridae)
VC72 (107, 142, 151, 105) VC73 (104) VC81 (137) VC83 (61) VC85 (22, 156) VC86 (108) VC87 (181) VC88 (213, 156, 135) VC89 (156) VC90 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100 (38, 21) VC103 (139) VC104 (109) VC105 (190) VC106 (157) VC107 (157)

Plagiognathus chrysanthemi (Wolff) (Miridae)

VC72 (142, 151, 105) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 135) VC89 (156)
VC90 (83, 156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100 (38, 21) VC104 (109,
187, 210) VC105 (190) VC106 (157) VC107 (157) VC110 (38, 179)

Plesiodema pinetella (Zetterstedt) (Miridae)

VC88 (156, 135, 226) VC92 (210) VC95 (167) VC106 (157)

Polymerus nigrata (Fallén) (Miridae)

VC89 (156) VC96 (157)

Polymerus palustris (Reuter) (Miridae) [DELETED]*Polymerus unifasciatus* (Fabricius) (Miridae)

VC72 (142, 150) VC85 (22) VC88 (156) VC89 (112, 156) VC92 (210) VC96 (157) VC106 (157)

Psallus ambiguus (Fallén) (Miridae)

VC72 (144, 151) VC81 (137) VC85 (22) VC88 (156, 135) VC92 (210) VC95 (167) VC96 (157)
VC105 (203, 35, 190) VC106 (157) VC108 (25)

Psallus confusus Rieger (Miridae)

VC88 (156) VC89 (156) VC106 (157)

Psallus falleni Reuter (Miridae)

VC72 (147, 151) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC100 (38, 21) VC104
(187, 210) VC105 (25) VC106 (157) VC107 (157) VC108 (25)

Psallus flavellus Stichel (Miridae)

VC89 (156) VC95 (167) VC106 (157)

Psallus haematodes (Gmelin) (Miridae)

VC72 (143, 151) VC81 (137) VC85 (22, 156) VC88 (156, 135) VC89 (156) VC90 (156) VC92
(210) VC95 (167) VC96 (157, 221) VC100 (38, 21) VC104 (187, 210) VC105 (25, 190) VC106
(157) VC107 (157) VC108 (25) VC110 (38)

Psallus lepidus Fieber (Miridae)

VC81 (137) VC88 (135) VC89 (156) VC92 (210) VC95 (167) VC104 (187, 210) VC106 (157)

Psallus luridus Reuter (Miridae)

VC88 (156)

Psallus mollis (Mulsant & Rey) (Miridae)

VC92 (206, 210) VC106 (157)

Psallus perrisi (Mulsant & Rey) (Miridae)

VC88 (156) VC92 (207, 210) VC96 (131)

Psallus salicis (Kirschbaum) (Miridae)

VC72 (144, 151) VC81 (137) VC95 (167)

Psallus variabilis (Fallén) (Miridae)

VC88 (156) VC89 (156)

Psallus varians (Herrich-Schaeffer) (Miridae)

VC72 (147, 151) VC81 (137) VC88 (135) VC89 (156) VC92 (210) VC95 (167) VC96 (221)
VC106 (157)

Psallus wagneri Ossiannilsson (Miridae)

VC92 (207, 210)

Rhabdomiris striatellus (Fabricius) (Miridae)

VC72 (147, 150) VC81 (137) VC88 (213, 135) VC89 (135) VC92 (210) VC95 (167) VC97 (188)
VC105 (190, 38)

Stenodema calcarata (Fallén) (Miridae)

VC72 (107, 144, 150, 105) VC73 (104) VC81 (137) VC85 (22) VC88 (156) VC89 (156) VC90
(156) VC91 (138) VC92 (210) VC95 (167) VC96 (157) VC100 (21) VC102 (99) VC104 (187,
210) VC106 (157) VC107 (157) VC110 (38)

Stenodema holsata (Fabricius) (Miridae)

VC72 (107, 144, 150, 105) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (108) VC88 (156, 135,
216) VC89 (156) VC90 (156) VC91 (138) VC92 (210) VC95 (167) VC96 (157, 221) VC99 (108)
VC100 (181, 21) VC101 (181) VC102 (99) VC103 (139) VC104 (187, 210) VC105 (190) VC106
(157) VC107 (157) VC111 (38, 233)

- Stenodema laevigata* (Linnaeus) (Miridae)
VC72 (144, 150, 105) VC73 (192) VC81 (137) VC88 (156, 135) VC95 (167)
- Stenotus binotatus* (Fabricius) (Miridae) [NEW]
VC74 (140) VC96 (140, 67, 157) VC98 (140)
- Strongylocoris leucocephalus* (Linnaeus) (Miridae)
VC75 (110) VC81 (137) VC88 (135) VC107 (157)
- Systellonotus triguttatus* (Linnaeus) (Miridae) [NEW]
VC85 (22)
- Teratocoris antennatus* (Boheman) (Miridae)
VC82 (45) VC97 (35)
- Teratocoris caricis* Kirkaldy (Miridae)
VC85 (112) VC88 (201, 112, 156) VC92 (210) VC95 (201, 202) VC96 (201, 202)
- Teratocoris saundersi* Douglas & Scott (Miridae)
VC80 (163) VC83 (201) VC85 (156) VC88 (156) VC89 (201, 156) VC92 (210) VC95 (202)
VC96 (200, 201) VC99 (108) VC100 (201) VC104 (201, 187, 210) VC106 (157) VC107 (157)
VC109 (209) VC110 (38)
- Teratocoris viridis* Douglas & Scott (Miridae)
VC72 (192) VC88 (112, 156, 192, 135, 217) VC92 (210, 192) VC95 (200, 202, 233) VC96 (203)
VC106 (157) VC110 (38) VC111 (38, 233)
- Tinicephalus hortulanus* (Meyer-Dür) (Miridae)
VC84 (14) VC92 (210)
- Trigonotylus psammaecolor* Reuter (Miridae) [NEW]
VC85 (54, 22) VC95 (67) VC96 (66)
- Trigonotylus ruficornis* (Geoffroy) (Miridae) [NEW]
VC95 (227) VC96 (157) VC106 (157) VC107 (157) VC110 (179)
- Tytthus pygmaeus* (Zetterstedt) (Miridae) [NEW]
VC106 (157)
- Zygimus nigriceps* (Fallén) (Miridae)
VC92 (206, 210) VC95 (128, 191) VC96 (199, 128, 74)
- Ceratocombus coleoptratus* (Zetterstedt) (Ceratocombidae)
VC85 (32, 22) VC88 (136) VC95 (167)
- Cryptostemma alienum* Herrich-Schaeffer (Dipsocoridae)
VC72 (143, 149, 16, 192) VC73 (16) VC74 (16) VC83 (47) VC88 (156, 192) VC95 (167) VC96 (157) VC102 (99) VC104 (194, 187, 210)
- Pachycoleus waltli* Fieber (Dipsocoridae) [NEW]
VC80 (234)
- Chartoscirta cincta* (Herrich-Schaeffer) (Saldidae)
VC72 (16) VC73 (16) VC85 (22) VC88 (156, 136) VC89 (156) VC92 (210) VC95 (167) VC102 (166, 165) VC104 (210, 38) VC105 (210) VC108 (65) VC110 (38)
- Chartoscirta cocksii* (Curtis) (Saldidae)
VC72 (142, 148, 16) VC87 (45) VC96 (17)
- Chartoscirta elegantula* (Fallén) (Saldidae)
VC72 (198, 16) VC73 (65) VC76 (38) VC87 (47) VC96 (87) VC105 (198, 38)
- Chiloxanthus pilosus* (Fallén) (Saldidae)
VC72 (142, 148, 16, 162)
- Halosalda lateralis* (Fallén) (Saldidae)
VC82 (45) VC95 (17, 168, 233) VC107 (157) VC110 (10)
- Macrosaldula scotica* (Curtis) (Saldidae)
VC72 (17, 144, 148, 16) VC73 (16) VC74 (16) VC86 (108) VC88 (213, 156, 135) VC89 (156)
VC92 (210) VC95 (17, 172, 167) VC96 (17, 212, 157) VC99 (181, 108) VC100 (38) VC102 (99)
VC104 (194, 187, 210, 211) VC105 (35, 190) VC106 (157) VC108 (133)
- Salda littoralis* (Linnaeus) (Saldidae)
VC72 (107, 143, 148, 16) VC73 (16) VC80 (163) VC81 (137) VC88 (156, 135, 216) VC92 (210)
VC95 (17, 167) VC96 (202, 17, 221) VC100 (223) VC102 (166, 165) VC105 (17, 190) VC106 (157) VC107 (157) VC110 (81, 60) VC111 (18, 233) VC112 (62, 18, 38, 233)

Salda morio Zetterstedt (Saldidae)

VC75 (182) VC92 (210) VC96 (203, 157) VC98 (182) VC100 (182, 38) VC104 (195, 187, 210)
VC110 (182, 38)

Salda muelleri (Gmelin) (Saldidae)

VC73 (160) VC75 (182) VC88 (182, 112, 156) VC92 (210) VC96 (182, 199, 202, 157) VC98
(182) VC100 (182, 38) VC105 (65)

Saldula arenicola (Scholtz) (Saldidae) [DELETED]*Saldula c-album* (Fieber) (Saldidae)

VC72 (143, 148, 16) VC88 (156, 135) VC92 (210) VC95 (167) VC96 (181, 17, 157, 221) VC100
(38, 223) VC106 (157) VC107 (157)

Saldula fucicola (J. Sahlberg) (Saldidae)

VC85 (112, 164, 156, 38) VC88 (156, 155) VC99 (181, 38) VC111 (38, 233) VC112 (38, 233)

Saldula opacula (Zetterstedt) (Saldidae)

VC92 (90, 222) VC95 (178, 38, 167) VC96 (181, 38) VC107 (209, 90, 210, 38)

Saldula orthochila (Fieber) (Saldidae)

VC72 (107, 143, 148, 16) VC77 (181) VC85 (22) VC88 (156, 135) VC92 (210) VC95 (167) VC96
(203, 17, 157, 221) VC104 (187, 210, 38) VC106 (157) VC107 (157) VC110 (38) VC112 (38,
233)

Saldula pallipes (Fabricius) (Saldidae) [NEW]

VC72 (162) VC105 (38)

Saldula palustris (Douglas) (Saldidae) [NEW]

VC102 (166, 165) VC104 (187, 210, 38) VC105 (65) VC106 (157) VC107 (157) VC110 (38)

Saldula pilosella (Thomson) (Saldidae)

VC72 (107)

Saldula saltatoria (Linnaeus) (Saldidae)

VC72 (107, 143, 148, 16) VC73 (104, 16, 160) VC74 (16) VC80 (163) VC81 (137) VC85 (22,
156) VC86 (108) VC88 (213, 156, 135, 136, 216) VC89 (156) VC92 (210) VC95 (167) VC96
(181, 157, 59) VC97 (188) VC99 (181, 108) VC100 (38, 223) VC102 (166, 165, 99) VC104 (109,
187, 210, 211) VC105 (190) VC106 (157) VC107 (90, 157) VC110 (115, 38, 179, 48)

Teloleuca pellucens (Fabricius) (Saldidae)

VC83 (45) VC88 (213, 218) VC96 (199, 202, 203)

Hebrus ruficeps Thomson (Hebridae)

VC72 (16, 232) VC73 (101) VC74 (16, 101) VC78 (101) VC79 (101) VC80 (101) VC88 (134)
VC89 (101, 156) VC102 (166, 165) VC106 (101)

Hydrometra stagnorum (Linnaeus) (Hydrometridae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC85 (44) VC87 (101, 44) VC88
(101) VC90 (45) VC95 (101, 167) VC100 (101) VC101 (101) VC103 (101)

Microvelia reticulata (Burmeister) (Veliidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC79 (101)
VC80 (101) VC82 (101) VC83 (101) VC84 (57, 101) VC85 (101) VC86 (101) VC88 (101) VC89
(101) VC90 (101) VC92 (101) VC95 (101) VC98 (101) VC100 (101) VC106 (101)

Velia caprai Tamanini (Veliidae)

VC72 (19, 101) VC73 (19, 104, 101) VC74 (101) VC75 (19, 101) VC76 (101) VC77 (19, 101)
VC78 (101) VC79 (13, 101) VC80 (13, 19, 101) VC81 (20, 137, 101) VC82 (101) VC83 (19, 101)
VC84 (101) VC85 (20, 19, 22, 101) VC86 (181, 101) VC87 (101) VC88 (20, 101, 156) VC89
(101, 156) VC90 (101) VC91 (19, 101) VC92 (19, 210, 101) VC93 (101) VC94 (13, 101) VC95
(20, 101) VC96 (181, 19, 11, 12, 101) VC97 (101) VC98 (101) VC99 (101) VC100 (19, 101)
VC101 (101) VC102 (19, 101, 165) VC103 (20, 19, 101) VC104 (26, 187, 19, 210, 211, 101)
VC105 (101) VC106 (19, 101) VC107 (101) VC108 (13, 101) VC109 (101) VC110 (101, 38, 179)
VC111 (19, 101) VC112 (19, 120, 101, 38)

Velia saulii Tamanini (Veliidae)

VC72 (13, 19, 101) VC73 (19, 101) VC74 (101) VC77 (19, 101) VC79 (19, 101) VC80 (101)
VC83 (19, 101) VC84 (101) VC85 (101) VC86 (108, 101, 38) VC87 (101) VC88 (101, 156) VC89
(101, 156) VC90 (101) VC94 (101) VC95 (20, 13, 176, 101, 38) VC96 (20, 129, 13, 101, 157)
VC97 (101) VC98 (101) VC99 (108, 38) VC101 (101) VC102 (101) VC105 (210, 101, 38) VC106

- (101, 157) VC107 (101) VC108 (101) VC109 (101) VC110 (101, 38) VC112 (101)
- Aquarius najas* (De Geer) (Gerridae)
VC72 (16, 173) VC73 (13, 101) VC74 (16, 101) VC75 (13)
- Gerris costae* (Herrich-Schaeffer) (Gerridae)
VC72 (144, 147, 148, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC77 (13, 101) VC80 (13) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC88 (213, 101, 156) VC89 (101) VC90 (101) VC91 (233) VC92 (210, 101) VC93 (101) VC94 (13, 101) VC95 (101) VC96 (12, 101, 157) VC97 (101) VC98 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (72, 139, 101) VC104 (26, 109, 187, 72, 210, 211, 101) VC105 (190, 101) VC106 (101) VC107 (101) VC108 (101) VC109 (13, 101) VC110 (76, 77, 72, 79, 101, 179) VC111 (101, 38, 233)
- Gerris gibbifer* Schummel (Gerridae)
VC72 (153, 16, 101) VC73 (16, 101) VC81 (137) VC88 (156) VC96 (12)
- Gerris lacustris* (Linnaeus) (Gerridae)
VC72 (144, 148, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101, 233) VC96 (12, 101, 157) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (139, 101) VC104 (26, 72, 101) VC105 (190, 101) VC106 (101, 157) VC107 (101) VC108 (101)
- Gerris lateralis* Schummel (Gerridae)
VC72 (16, 101) VC73 (16, 101) VC74 (101) VC75 (101) VC77 (101) VC80 (163, 101) VC82 (101) VC83 (57, 101) VC85 (22, 101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101, 170) VC96 (12, 101, 157) VC99 (101) VC103 (72) VC104 (26, 72, 101) VC107 (210, 38) VC110 (101, 38) VC111 (101) VC112 (62, 101, 38)
- Gerris odontogaster* (Zetterstedt) (Gerridae)
VC72 (144, 148, 16, 101) VC73 (16, 160, 101) VC74 (16, 101) VC75 (101) VC77 (101) VC79 (101) VC80 (13, 101) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (13, 210, 101) VC93 (101) VC94 (101) VC95 (101, 168, 233) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC103 (101) VC104 (26, 109, 187, 72, 210, 101) VC105 (35, 190, 101, 38) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (72, 101, 38) VC111 (101)
- Gerris thoracicus* Schummel (Gerridae)
VC72 (16, 101) VC73 (101) VC74 (101) VC75 (101) VC76 (101) VC77 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC83 (101) VC84 (101) VC85 (22, 101) VC88 (101, 156) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (38, 167) VC96 (101, 157) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26, 187, 72, 101) VC105 (190, 101, 38) VC106 (101) VC107 (101) VC108 (101) VC110 (77, 72, 101, 38)
- Limnporus rufoscutellatus* (Latreille) (Gerridae) [DELETED]
- Nepa cinerea* Linnaeus (Nepidae)
VC72 (16, 101) VC73 (16, 101) VC74 (101) VC75 (101) VC76 (101) VC77 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC82 (101) VC83 (45) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC91 (101) VC92 (210, 101) VC93 (101) VC95 (101, 167) VC96 (101) VC97 (101) VC98 (101, 45) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (187, 78, 210, 211, 101) VC106 (101) VC107 (101) VC109 (101) VC110 (101, 38) VC111 (184, 101, 38)
- Ilyocoris cimicoides* (Linnaeus) (Naucoridae) [DELETED]
- Aphelocheirus aestivalis* (Fabricius) (Aphelocheiridae)
VC73 (42, 101) VC74 (183, 101) VC75 (101) VC76 (42, 101) VC81 (137, 119, 101) VC87 (101) VC89 (101)
- Notonecta glauca* Linnaeus (Notonectidae)
VC72 (16, 101) VC73 (16, 160, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC82 (101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (109, 101) VC105 (101, 38) VC106 (101)

- VC107 (101) VC109 (101) VC110 (76, 101, 38) VC111 (101, 38) VC112 (177)
- Notonecta obliqua* Thunberg (Notonectidae)
 VC72 (16) VC73 (101) VC74 (101) VC76 (101) VC88 (101) VC92 (101) VC95 (101) VC96 (101)
 VC97 (101) VC98 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26,
 187, 210, 101) VC105 (101) VC106 (101) VC107 (101) VC108 (101) VC110 (77, 101, 38, 179)
- Plea minutissima* Leach (Pleidae)
 VC73 (15, 100, 101, 56) VC74 (100, 101)
- Arctocoris carinata* (C.R. Sahlberg) (Corixidae)
 VC72 (16) VC73 (16, 101) VC88 (101) VC90 (101) VC95 (101) VC96 (12, 101) VC100 (101)
 VC102 (101) VC104 (26, 101) VC105 (210, 101) VC106 (101) VC108 (101) VC109 (101) VC110
 (77, 101, 38) VC111 (101) VC112 (101)
- Arctocoris germari* (Fieber) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
 VC81 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (101, 38) VC86 (101) VC87 (101) VC88
 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101, 38) VC96 (101)
 VC99 (101) VC100 (101) VC102 (101) VC104 (109, 187, 210, 101) VC106 (101) VC108 (101)
 VC109 (101) VC110 (101, 38) VC111 (101) VC112 (177, 62, 101, 38)
- Callicorixa praeusta* (Fieber) (Corixidae)
 VC72 (143, 152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101)
 VC79 (101) VC80 (101) VC81 (137, 101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (22,
 101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101)
 VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100
 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (109, 187, 210, 101) VC105 (101)
 VC106 (101) VC107 (101) VC109 (101) VC110 (101, 38) VC111 (101, 38) VC112 (62, 101, 38)
- Callicorixa wollastoni* (Douglas & Scott) (Corixidae)
 VC72 (153, 152, 16, 101) VC73 (16, 101) VC75 (101) VC77 (101) VC78 (101) VC83 (101) VC84
 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (213, 101) VC89 (101) VC90 (101) VC91 (101)
 VC92 (210, 101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC100 (101, 38)
 VC101 (101) VC102 (101, 165) VC104 (26, 187, 210, 101) VC105 (190, 101) VC106 (101)
 VC107 (101) VC108 (101) VC109 (101) VC110 (77, 101, 38) VC111 (101) VC112 (62, 101, 38)
- Corixa dentipes* Thomson (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
 VC84 (189, 38) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91
 (101) VC92 (101) VC95 (101) VC96 (101, 38) VC97 (101) VC98 (101) VC99 (101) VC101 (101)
 VC110 (101, 38)
- Corixa iberica* Jansson (Corixidae)
 VC98 (101) VC100 (4, 101, 5) VC102 (101) VC103 (101) VC104 (101, 5) VC105 (101) VC107
 (101) VC108 (101) VC110 (101, 5) VC111 (180, 101, 5) VC112 (180, 177, 101, 5)
- Corixa panzeri* Fieber (Corixidae)
 VC72 (101) VC73 (101) VC77 (101) VC82 (57, 101) VC83 (101) VC92 (101) VC93 (101) VC95
 (101) VC100 (101) VC103 (101) VC104 (101) VC110 (101, 38) VC111 (38) VC112 (101)
- Corixa punctata* (Illiger) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101)
 VC80 (101) VC81 (137, 101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (22, 101) VC86
 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101)
 VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (4) VC99 (101) VC100 (101, 5) VC101
 (101) VC102 (166, 165) VC104 (26) VC105 (190, 101) VC106 (101) VC107 (101) VC108 (101)
 VC109 (101) VC110 (76, 38) VC112 (62, 38)
- Cymatia bonsdorffii* (C.R. Sahlberg) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
 VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC87 (101) VC88 (101) VC89 (101) VC90
 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101, 38) VC96 (101, 38, 157) VC97 (101)
 VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (109, 187,
 210, 101) VC105 (101, 38) VC106 (101) VC108 (101) VC109 (101) VC110 (101, 38, 179)

Cymatia coleoprata (Fabricius) (Corixidae)

VC103 (38) VC110 (38)

Glaenocoris cavifrons (Thomson) (Corixidae)

VC102 (165)

Glaenocoris propinqua (Fieber) (Corixidae) [DELETED]

Hesperocoris castanea (Thomson) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26, 75, 109, 187, 210, 101) VC105 (35, 190, 101) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (75, 77, 101, 38, 179) VC111 (101) VC112 (101)

Hesperocoris linnaei (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC82 (57, 101) VC83 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC92 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (101) VC106 (101) VC110 (101, 38)

Hesperocoris sahlbergi (Fieber) (Corixidae)

VC72 (143, 152, 16, 101) VC73 (104, 16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (26, 101) VC105 (190, 101, 38) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (101, 38) VC111 (101)

Micronecta minutissima (Linnaeus) (Corixidae)

VC110 (214)

Micronecta poweri (Douglas & Scott) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC79 (101) VC80 (101) VC85 (101) VC87 (101) VC88 (101) VC89 (101) VC92 (101) VC94 (101) VC95 (101) VC98 (101) VC99 (101) VC102 (166, 165) VC103 (101) VC104 (26, 187, 210, 101, 38) VC105 (101) VC107 (101) VC109 (101) VC110 (101, 38) VC111 (101)

Paracoris concinna (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101) VC81 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (57, 101) VC87 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC102 (101) VC109 (101) VC110 (101, 38) VC111 (101)

Sigara distincta (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC79 (101) VC80 (101) VC81 (101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC86 (108, 101) VC87 (101) VC88 (101, 156) VC89 (101, 156) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101) VC94 (101) VC95 (101) VC96 (181, 12, 101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (26, 101) VC105 (101, 38) VC106 (101, 157) VC107 (101) VC108 (101) VC109 (101) VC110 (77, 101, 38, 179) VC111 (101) VC112 (62, 101, 38)

Sigara dorsalis (Leach) (Corixidae)

VC72 (152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (101) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (101, 38) VC111 (101) VC112 (101, 38)

Sigara falleni (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101)

- VC95 (101) VC96 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101)
VC103 (101) VC104 (101, 38) VC106 (101) VC107 (101) VC111 (101)
- Sigara fossarum* (Leach) (Corixidae)
VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89
(101) VC92 (101) VC96 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101)
VC103 (101) VC105 (101) VC106 (101) VC107 (101) VC109 (101) VC110 (101, 38)
- Sigara lateralis* (Leach) (Corixidae)
VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC79 (101)
VC80 (101) VC81 (137, 101) VC82 (101, 45) VC83 (101) VC84 (101) VC85 (101) VC86 (101)
VC87 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101) VC94 (101)
VC95 (101) VC100 (101) VC101 (101, 38) VC102 (101) VC110 (101, 38) VC111 (101) VC112
(62, 101, 38)
- Sigara limitata* (Fieber) (Corixidae)
VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC96 (12)
- Sigara nigrolineata* (Fieber) (Corixidae)
VC72 (143, 152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101)
VC80 (101) VC81 (137, 101) VC82 (101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101)
VC87 (101) VC88 (213, 101) VC89 (101) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101)
VC94 (101) VC95 (101) VC96 (157) VC102 (165) VC104 (26, 109, 187, 210, 211) VC105 (35,
190) VC110 (77) VC112 (62, 38)
- Sigara scotti* (Douglas & Scott) (Corixidae)
VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC85 (101) VC86 (101)
VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101)
VC94 (101) VC95 (101) VC96 (57, 12, 101, 157) VC97 (101) VC98 (101) VC99 (101) VC100
(101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26, 109, 187, 210, 211, 101) VC105
(190, 101) VC106 (101, 157) VC107 (101) VC108 (101) VC109 (101) VC110 (76, 77, 101, 38,
179) VC111 (101) VC112 (62, 101, 38)
- Sigara selecta* (Fieber) (Corixidae) [DELETED]
- Sigara semistriata* (Fieber) (Corixidae)
VC72 (153, 152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101)
VC78 (101) VC79 (101) VC80 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86
(101) VC87 (101) VC88 (101) VC89 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101)
VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101)
VC103 (101) VC104 (101) VC105 (101) VC106 (101) VC107 (101) VC108 (101, 38) VC109
(101) VC110 (101, 38, 179)
- Sigara stagnalis* (Leach) (Corixidae)
VC74 (16, 101)
- Sigara venusta* (Douglas & Scott) (Corixidae)
VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC77 (101) VC79 (101) VC83 (101)
VC85 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC92 (101) VC93 (101) VC94
(101) VC95 (172, 101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101, 38) VC101
(101) VC102 (101, 165) VC103 (101) VC104 (26, 187, 210, 211, 101) VC105 (101) VC108 (101)
VC109 (101) VC110 (76, 101) VC111 (101, 38) VC112 (101)

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TABLE 1. The references relating to the numbers in the list of divided records.

(1)	Aitkins (1936)	(51)	Evans (1913)
(2)	Alexander (2000)	(52)	Evans (1915)
(3)	Alexander (2015)	(53)	Eversham (1987)
(4)	Angus (2006a)	(54)	Eyre et al. (2004)
(5)	Angus (2006b)	(55)	Fergusson (1920)
(6)	Badmin (1970)	(56)	Foster (2005)
(7)	Blair (1931)	(57)	Gillespie (1985)
(8)	Bland & Lyszkowski (2005)	(58)	Grimshaw (1906)
(9)	Bland <i>et al.</i> (1999)	(59)	Grimshaw (1910)
(10)	Bratton (2012)	(60)	Grimshaw (1920)
(11)	Brinkhurst (1956)	(61)	Grimshaw (1930)
(12)	Brinkhurst (1957)	(62)	Hale Carpenter (1950)
(13)	Brinkhurst (1959)	(63)	Hall (1951)
(14)	Brock (1912)	(64)	Hancock (1992)
(15)	Brooke (2008)	(65)	Hancock (1993)
(16)	Brown (1940-44)	(66)	Hancock (1997)
(17)	Brown (1948)	(67)	Hancock (1998)
(18)	Brown (1950)	(68)	Hancock (2000a)
(19)	Brown (1951)	(69)	Hancock (2000b)
(20)	Brown (1954)	(70)	Hancock (2001)
(21)	Butler (1921)	(71)	Hancock (2002)
(22)	Campbell (1980)	(72)	Heslop Harrison (1940a)
(23)	China (1935)	(73)	Harwood (1921)
(24)	China (1952)	(74)	Hawkins (2013)
(25)	Claridge <i>et al.</i> (1968)	(75)	Heslop Harrison (1937)
(26)	Clifton (1984)	(76)	Heslop Harrison (1940b)
(27)	Crossley (1974)	(77)	Heslop Harrison (1941a)
(28)	Crowson & Crowson (1961)	(78)	Heslop Harrison (1941b)
(29)	Crowson & Crowson (1963)	(79)	Heslop Harrison (1943)
(30)	Crowson <i>et al.</i> (1966)	(80)	Heslop Harrison (1947)
(31)	Crowson (1971)	(81)	Heslop Harrison (1950)
(32)	Crowson (1972)	(82)	Hill (1947)
(33)	Crowson (1974)	(83)	Hill (1952)
(34)	Day (1936)	(84)	Hill (1965)
(35)	Day (1938)	(85)	Hill (1968)
(36)	Day (1940)	(86)	Hill (1973)
(37)	Dolling (1977)	(87)	Hodge (1992)
(38)	Dolling (1983)	(88)	Horsfield (1984)
(39)	Dolling (2005)	(89)	Horsfield (1989a)
(40)	Donisthorpe (1922)	(90)	Horsfield (1989b)
(41)	Donisthorpe (1923)	(91)	Horsfield (2001)
(42)	Doughty (1985)	(92)	Horsfield (2002a)
(43)	Evans & Grimshaw (1916)	(93)	Horsfield (2002b)
(44)	Evans (1897)	(94)	Horsfield (2003)
(45)	Evans (1900a)	(95)	Horsfield (2010a)
(46)	Evans (1900b)	(96)	Horsfield (2010b)
(47)	Evans (1901)	(97)	Horsfield (2015)
(48)	Evans (1912a)	(98)	Hudson Beare (1926)
(49)	Evans (1912b)	(99)	Hutchinson (1923)
(50)	Evans (1912c)	(100)	Huxley (1997)

TABLE 1 *CONTINUED*.

(101) Huxley (2003)	(151) Murray (1939b)
(102) Ing (1964)	(152) Murray (1939c)
(103) Judd (1998)	(153) Murray (1940)
(104) Kenward (1970)	(154) Nau (1978a)
(105) Kenward (1971a)	(155) Nau (1991)
(106) Kenward (1971b)	(156) Nau (1991-1992)
(107) Kenward (1973)	(157) Nau (1993)
(108) Kenward (1978)	(158) Nau (1995)
(109) Kevan (1941)	(159) Nau (2005)
(110) King (1913)	(160) Nelson & Theaker (1982)
(111) King (1917)	(161) Nelson (1983/84)
(112) Kirby & Lambert (1992)	(162) Nelson (1980)
(113) Kirby (1993)	(163) Nelson (1982)
(114) Kirby (1994)	(164) Nelson (1983)
(115) Lack (1932)	(165) Nelson (2013)
(116) Le Quesne (1955)	(166) Nelson (2014)
(117) Le Quesne (1958)	(167) Norman (1877)
(118) Leston (1953)	(168) Norman (1879)
(119) Limbert & Slack (1939)	(169) Norman (1880b)
(120) Lindroth (1955)	(170) Norman (1881)
(121) Littlewood (2009)	(171) O'Donoghue (1935)
(122) Littlewood (2010a)	(172) Pickard-Cambridge (1920)
(123) Littlewood (2010b)	(173) Pollitt & Ferguson (2011)
(124) Littlewood (2011)	(174) Porter (1989)
(125) MacNulty (1971)	(175) Ramsay (2014)
(126) Massee (1945)	(176) Richter (1953)
(127) Massee (1960a)	(177) Riddiford (2010)
(128) Massee (1960b)	(178) Ridpath (1953)
(129) Massee (1961)	(179) Robinson et al. (2015)
(130) Massee (1962)	(180) Savage (1991)
(131) Massee (1964)	(181) Scudder (1958a)
(132) McAllister (1962)	(182) Scudder (1958b)
(133) McDermott (1960)	(183) Shirt (1984)
(134) McGregor & Kirkaldy (1898/99)	(184) Sinclair (1974)
(135) McGregor (1893)	(185) Skidmore (1962)
(136) McGregor (1894)	(186) Slack (1937)
(137) McNeill (1963)	(187) Steel & Woodroffe (1969)
(138) Mearns (1901)	(188) Thornley (1896)
(139) Miller & Owen (1952)	(189) Waterston (1936)
(140) Moran (1993)	(190) Waterston (1939)
(141) Morison (1935)	(191) Waterston (1964)
(142) Murray (1934)	(192) White (1871/72)
(143) Murray (1935)	(193) Woodroffe (1951)
(144) Murray (1936)	(194) Woodroffe (1960)
(145) Murray (1937a)	(195) Woodroffe (1961)
(146) Murray (1937b)	(196) Woodroffe (1962)
(147) Murray (1937c)	(197) Woodroffe (1963)
(148) Murray (1938a)	(198) Woodroffe (1964)
(149) Murray (1938b)	(199) Woodroffe (1965)
(150) Murray (1939a)	(200) Woodroffe (1967a)

TABLE 1 CONTINUED.

(201) Woodroffe (1967b)	(219) Douglas & Scott (1868)
(202) Woodroffe (1968)	(220) White (1869)
(203) Woodroffe (1969a)	(221) White (1870)
(204) Woodroffe (1969b)	(222) Douglas (1874a)
(205) Woodroffe (1970)	(223) Douglas (1874b)
(206) Woodroffe (1971a)	(224) Douglas & Scott (1874)
(207) Woodroffe (1971b)	(225) Douglas & Scott (1875)
(208) Woodroffe (1973a)	(226) Reuter (1876a)
(209) Woodroffe (1973b)	(227) Reuter (1876b)
(210) Woodroffe (1974)	(228) Douglas (1876)
(211) Wormell (2006)	(229) Norman (1876)
(212) Haines (1936)	(230) Reuter (1877)
(213) Blair (1932)	(231) Saunders (1877)
(214) Brown & Scudder (1958)	(232) White (1877)
(215) Douglas & Scott (1866)	(233) Reuter (1878)
(216) Marshall (1866)	(234) Hewitt (2016a)
(217) Douglas & Scott (1867a)	(235) Hewitt (2016b)
(218) Douglas & Scott (1867b)	

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THE MERGING OF RYAN'S LISTS OF HEMIPTERA-HETEROPTERA FOR LEICESTERSHIRE AND RUTLAND INTO A SINGLE VICE-COUNTY LIST FOR VC55

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This article may be accused of being facile, but I felt it was important to put on record all the operations carried out in order to convert the county distribution of the Hemiptera-Heteroptera (Ryan, 2014 & 2015a) into a vice-county distribution, no matter how trivial. These operations were set out in Ryan (2015b) and have so far comprised the division of the lists for seventeen geographical regions (Scotland, Ireland and fifteen English counties) that correspond to more than one vice-county, which complete in this issue of the *Hemipterist* (Ryan, 2015c, 2015d, 2016a, 2016b, 2016c, 2017a, 2017b, 2017c, 2017d, 2018a, 2018b, 2018c, 2018d, 2018e, 2018f, 2018g & 2018h).

All that now remains to be done is to merge lists where geographical areas have been combined into a single vice-county. The merging of Furness (part of the geographical region Lancashire & Isle of Man) with Westmoreland into Watsonian Westmorland with Furness (VC69) was resolved with the division of the list for Lancashire & Isle of Man into lists for its three constituent vice-counties. In fact, any records for Furness found during the preparation of the Ryan (2014) were assigned to Westmoreland, in anticipation of this operation. Consequently, the merging of the lists for Leicestershire and Rutland into a single list for Watsonian Leicestershire with Rutland (VC55) is the final operation in the creation of the vice-county distribution.

There are just 22 records for Rutland in the county distribution, compared with 176 for Leicestershire. Only one species recorded for Rutland is not also recorded for Leicestershire, *Oeciacus hirundinis* (Lamarck) (Cimicidae). Consequently, the merging of the two lists requires the deletion of 21 duplicate records, producing a list for VC55 comprising 177 species. It is this list, which will appear in the vice-county distribution to be presented in Volume 6 of this journal.

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***NYSIUS CYMOIDES* (SPINOLA) (LYGAEIDAE) DELETED
FROM RYAN'S LIST FOR HERTFORDSHIRE**

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During my preparation of Ryan (2018), the recorder for Bedfordshire, Bernard Nau, pointed out that the records of *Nysius cymoides* (Spinola) (Lygaeidae) for Bedfordshire and Hertfordshire in Nau (2004) are erroneous. The former record was mentioned as deleted in Ryan (2018), and I have since had confirmation from the recorder for Hertfordshire, Joe Gray, that he has no record for this species. Consequently, *N. cymoides* must also be deleted from Ryan's list for Hertfordshire.

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**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM DATA SETS PROVIDED BY RECORDERS**

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Given that the county distribution of the Hemiptera-Heteroptera (Ryan, 2014a & 2014b) has now been converted into a vice-county distribution, it is time to go through the many spreadsheets I have been sent by readers of this journal, and see if there are any additional new vice-county records. These spreadsheets were scoured for new records at the time they were received, and any new records published. However, at these times not all the historic counties of the county distribution had had their lists divided into separate lists for their constituent vice-counties. Consequently, records not new for an historic county might now be new for one of the corresponding vice-counties. The ensuing re-analysis of these spreadsheets, using my bespoke computer software, produced the following list of new records, originating from data sets supplied by Rob Coleman", Richard Dickson^, Steve Lane* and Stuart Warrington~.

Elasmostethus interstinctus (Linnaeus) (Acanthosomatidae)

VC8: 20-Aug-12, SU1845, Bulford Field (& Dumbell Copse).^

Coriomeris denticulatus (Scopoli) (Coreidae)

VC8: 14-Jul-03, SU091461, Bustard Vedette.^

Myrmus miriformis (Fallén) (Rhopalidae)

VC8: 27-Jun-11, SU091461, Bustard Vedette.^

Aphanus rolandri (Linnaeus) (Lygaeidae)

VC26: 16 May 2014, TL7786, Brandon* & 12/07/2007, TL855832, Thetford."

Henestaris laticeps (Curtis) (Lygaeidae)

VC4: 09 Aug 1996, SS4338, Croyde.*

Heterogaster urticae (Fabricius) (Lygaeidae)

VC13: 09-Aug-11, SU7504, Thorney Island.^

Megalonotus praetextatus (Herrich-Schaeffer) (Lygaeidae)

VC4: 09 Aug 1996, SS4339, Croyde dunes.*

Nysius huttoni F.B. White (Lygaeidae)

VC26: 07 Aug 2015, TL78.*

Scolopostethus affinis (Schilling) (Lygaeidae)

VC8: 27-Jun-11, SU1845, Bulford Field (& Dumbell Copse).^

Scolopostethus decoratus (Hahn) (Lygaeidae)

VC26: 07 Aug 2015, TL78.* & 06/08/2003, TL818604, Ickworth: Fairy Lake.~

Stygnocoris rusticus (Fallén) (Lygaeidae)

VC8: 08-Sep-08, SU0348, 1 km North of Tilshead.^

Stygnocoris sabulosus (Schilling) (Lygaeidae)

VC8: 29-Aug-08, SU1845, Bulford Field (& Dumbell Copse).^

Taphropeltus contractus (Herrich-Schaeffer) (Lygaeidae)

VC26: 16 May 2014, TL7786, Brandon.*

Berytinus clavipes (Fabricius) (Berytidae)

VC8: 20-Aug-12, SU0247, Horse Down, Nr. Tilshead.^

Physatocheila dumetorum (Herrich-Schaeffer) (Tingidae)

VC8: 11-May-09, SU1845, Bulford Field (& Dumbell Copse).^

Empicoris vagabundus (Linnaeus) (Reduviidae)

VC26: 22 Jul 2014, TL9835, Tendring Hall, Stoke-by-Nayland.*

Himacerus mirmicoides (O. Costa) (Nabidae)

VC26: 04 May 2014, TL7685, Brandon.* & 31/10/2015, TL812615, Ickworth: Albana Wood, east.~

- Nabis flavomarginatus* Scholtz (Nabidae)
VC8: 14-Jul-03, SU091461, Bustard Vedette.^
- Nabis limbatus* Dahlbom (Nabidae)
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Nabis rugosus* (Linnaeus) (Nabidae)
VC13: 28-May-12, SU9807, Rewell Wood, W. of Arundel.^
- Anthocoris nemoralis* (Fabricius) (Anthocoridae)
VC8: 09-Jul-12, SU1845, Bulford Field (& Dumbell Copse).^
- Anthocoris nemorum* (Linnaeus) (Anthocoridae)
VC3: 07-Sep-03, SX6349, Great Orcheton Farm.^
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 28-May-12, SU9807, Rewell Wood, W. of Arundel.^
- Dufouriellus ater* (Dufour) (Anthocoridae)
VC26: 15 Aug 2014, TL9935, Tendring Hall, Stoke-by-Nayland.*
- Temnostethus gracilis* Horváth (Anthocoridae)
VC26: 22 Jul 2014, TL9935, Tendring Hall, Stoke-by-Nayland.*
- Loricula coleoptrata* (Fallén) (Microphysidae)
VC26: 03 Sep 2015, TL78.*
- Loricula elegantula* (Baerensprung) (Microphysidae)
VC26: 22 Jul 2014, TL9835, Tendring Hall, Stoke-by-Nayland.*
- Amblytylus nasutus* (Kirschbaum) (Miridae)
VC8: 15-Jun-09, SU1845, Bulford Field (& Dumbell Copse).^
VC26: 02 Jul 2014, TL7786, Brandon.*
- Apolygus lucorum* (Meyer-Dür) (Miridae)
VC8: 29-Aug-08, SU1845, Bulford Field (& Dumbell Copse).^
- Apolygus spinolae* (Meyer-Dür) (Miridae)
VC13: 31-Aug-05, SU8223, Fyning area.^
- Blepharidopterus angulatus* (Fallén) (Miridae)
VC8: 20-Aug-12, SU1845, Bulford Field (& Dumbell Copse).^
VC13: 15-Aug-11, SU9807, Rewell Wood.^
- Calocoris roseomaculatus* (De Geer) (Miridae)
VC8: 14-Jul-03, SU091461, Bustard Vedette.^
- Charagochilus gyllenhalii* (Fallén) (Miridae)
VC8: 25-Jul-06, ST9752, Great Cheverell Hill NR.^
- Closterotomus norwegicus* (Gmelin) (Miridae)
VC3: 11-Jul-07, SY2088, West Cliff, Branscombe.^
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 09-Aug-11, SU7504, Thorney Island.^
- Deraeocoris flavilinea* (A. Costa) (Miridae)
VC8: 14-Jul-03, SU0348, 1 km North of Tilshead.^
- Deraeocoris lutescens* (Schilling) (Miridae)
VC8: 16-May-11, SU1845, Bulford Field (& Dumbell Copse).^
- Heterotoma planicornis* (Pallas) (Miridae)
VC3: 11-Jul-07, SY2089, Branscombe.^
- Leptopterna ferrugata* (Fallén) (Miridae)
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^
- Lygocoris pabulinus* (Linnaeus) (Miridae)
VC8: 29-Aug-08, SU1845, Bulford Field (& Dumbell Copse).^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Megaloceroea recticornis* (Geoffroy) (Miridae)
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Notostira elongata* (Geoffroy) (Miridae)
VC3: 11-Jul-07, SY2088, West Cliff, Branscombe.^
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^

- Orthops campestris* (Linnaeus) (Miridae)
VC13: 09-Aug-11, SU7504, Thorney Island.^
- Orthocephalus coriaceus* (Fabricius) (Miridae)
VC26: 02 Jul 2014, TL7786, Brandon.*
- Orthotylus ochrotrichus* Fieber (Miridae)
VC8: 09-Jul-12, SU1845, Bulford Field (& Dumbell Copse).^
- Orthotylus virescens* (Douglas & Scott) (Miridae)
VC26: 07 Aug 2015, TL78.* & 17/09/2003, TL815624, Ickworth: Horringer Park, nr Kings Meadow Road.~
- Phoenicocoris obscurellus* (Fallén) (Miridae)
VC26: 07 Aug 2015, TL78.*
- Phytocoris ulmi* (Linnaeus) (Miridae)
VC3: 11-Jul-07, SY2088, West Cliff, Branscombe.^
- Phytocoris varipes* Boheman (Miridae)
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
VC13: 31-Jul-05, SU8223, Fyning area.^
- Pinalitus cervinus* (Herrich-Schaeffer) (Miridae)
VC8: 25-Jun-12, SU1845, Bulford Field (& Dumbell Copse).^
- Pithanus maerkelii* (Herrich-Schaeffer) (Miridae)
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^
VC26: 10 Jun 2014, TL7685, Brandon.*
- Plagiognathus arbustorum* (Fabricius) (Miridae)
VC3: 11-Jul-07, SY2089, Branscombe.^
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Polymerus nigrata* (Fallén) (Miridae)
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
VC26: 07 Aug 2015, TL78.*
- Psallus ambiguus* (Fallén) (Miridae)
VC8: 22-Jun-09, SU1845, Bulford Field (& Dumbell Copse).^
- Stenodema laevigata* (Linnaeus) (Miridae)
VC3: 06-Jun-13, SX716861, Middlecot nr Chagford, Dartmoor.^
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Stenotus binotatus* (Fabricius) (Miridae)
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^
- Strongylocoris leucocephalus* (Linnaeus) (Miridae)
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
- Ceratocombus coleoptratus* (Zetterstedt) (Ceratocombidae)
VC26: 17 Sep 2015, TL78.*

I am most grateful to Rob, Richard, Steve and Stuart for giving further permission for more of their records to be published.

References

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NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA FROM THE NBN ATLAS

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With the imminent publication of the vice-county distribution of the Hemiptera-Heteroptera, and having extracted all the vice-county records from the entomological literature and recorder's spreadsheets presently available to me, I thought it was time to look at internet sources of records. The most important of these in Britain is the NBN Atlas (<http://www.nbnatlas.org/>), which includes among its data providers other recording websites.

On 8 April 2018, I downloaded the Hemiptera dataset of the NBN Atlas which delivered an Excel spreadsheet containing 367,576 records, containing Homoptera as well as the desired Heteroptera. There were no vice-county assignments for the records, so the bulk grid reference parser of the Botanical Society of Britain and Ireland website (<https://database.bsbi.org/gridrefparser.php>) was used to add these. This augmented spreadsheet was then compared against my own database, in the same manner as I have frequently done with spreadsheets supplied by readers of this journal, using bespoke computer software I have written for the purpose. Many records did not have a location of sufficient precision to be assigned to an individual vice-county, and were rejected by this process. The new vice-county records so identified were then interpreted in the same way as records published in the literature by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). All records lacking a date, essential for this interpretation, were deleted.

The result of this analysis was a spreadsheet containing 11,941 records, comprising 2,708 species-vice-county combinations that were new to the vice-county distribution. These are listed below, with the vice-county codes following the species names.

Aneurys avenius (Dufour) (Aradidae): 23.

Aneurys laevis (Fabricius) (Aradidae): 3; 6; 19; 32; 41; 55.

Aradus cinnamomeus Panzer (Aradidae): 49; 52.

Aradus depressus (Fabricius) (Aradidae): 6; 44; 50; 51; 55; 57; 95.

Acanthosoma haemorrhoidale (Linnaeus) (Acanthosomatidae): 4; 5; 7; 8; 42; 48; 50; 51; 52; 57; 65; 71; 87; 95; 103; 105; 106; 107; 108; 109.

Cyphostethus tristriatus (Fabricius) (Acanthosomatidae): 6; 8; 15; 35; 46; 49; 52; 56; 57; 70; 71; 96; H38.

Elasmostethus interstinctus (Linnaeus) (Acanthosomatidae): 6; 35; 36; 47; 50; 51; 52; 65; 71; 77; 82; 83; 86; 90; 94; 96; 97; 98; 99; 105; 107; 108; H38.

Elasmucha grisea (Linnaeus) (Acanthosomatidae): 5; 6; 7; 8; 35; 41; 47; 49; 50; 51; 52; 82; 83; 93; 97; 103; 105.

Adomerus biguttatus (Linnaeus) (Cydnidae): 34; 48.

Canthophorus impressus (Horváth) (Cydnidae): 26.

Geotomus punctulatus (A. Costa) (Cydnidae): 2.

Legnotus limbosus (Geoffroy) (Cydnidae): 6; 41; 46; 49; 55; 61.

Legnotus picipes (Fallén) (Cydnidae): 13.

Sehirus luctuosus Mulsant & Rey (Cydnidae): 7; 13; 29; 31; 35; 56; 61.

Tritomegas bicolor (Linnaeus) (Cydnidae): 4; 8; 13; 31; 39; 57; 59; 67.

Tritomegas sexmaculatus (Rambur) (Cydnidae): 16.

Thyreocoris scarabaeoides (Linnaeus) (Thyreocoridae): 13; 25; 32; 35; 55; 69; 70.

Eurygaster maura (Linnaeus) (Scutelleridae): 14; 34.

Eurygaster testudinaria (Geoffroy) (Scutelleridae): 3; 4; 7; 13; 14; 35; 37; 46; 49; 52; 55.

Odontoscelis lineola Rambur (Scutelleridae): 45.

Aelia acuminata (Linnaeus) (Pentatomidae): 4; 6; 7; 31; 34; 35; 42; 44; 50; 51; 56; 57.

Carpocoris purpureipennis (De Geer) (Pentatomidae): 14.

- Dolycoris baccarum* (Linnaeus) (Pentatomidae): 8; 31; 42; 47; 50; 51; 59; 64; 69; 73; 74; 75; 86; 87; 90; 91.
- Eurydema dominulus* (Scopoli) (Pentatomidae): 63; 64.
- Eurydema oleracea* (Linnaeus) (Pentatomidae): 5; 6; 7; 13; 32; 37; 53; 54; 55.
- Eysarcoris venustissimus* (Schrank) (Pentatomidae): 3; 5; 6; 14; 34; 35; 36; 37; 41; 42; 55; 64.
- Neottiglossa pusilla* (Gmelin) (Pentatomidae): 6; 56.
- Palomena prasina* (Linnaeus) (Pentatomidae): 4; 7; 42; 43; 47; 50; 51; 57; 62; 64; 69; 70; 71; 96.
- Pentatoma rufipes* (Linnaeus) (Pentatomidae): 4; 35; 51; 57; 71; 74; 75; 76; 77; 78; 82; 83; 84; 87; 93; 97; 98; 108; H39.
- Peribalus strictus* (Fabricius) (Pentatomidae): 44.
- Picromerus bidens* (Linnaeus) (Pentatomidae): 4; 5; 6; 13; 31; 35; 36; 43; 47; 50; 51; 52; 55; 57; 67; 69; 74; 75; 76; 77; 82; 86; 87; 90; 95; 96; 97; 98; 100; 103; 106; 107; H38.
- Piezodorus lituratus* (Fabricius) (Pentatomidae): 4; 31; 35; 42; 47; 51; 57; 73; 75; 77; 78; 83; 86; 90; 91; 93; 94; 96; 104; 105; 106; 109; H38.
- Podops inunctus* (Fabricius) (Pentatomidae): 31; 35; 55; 56; 57.
- Rhacognathus punctatus* (Linnaeus) (Pentatomidae): 49; 57; 64; 69; 95; 96; 98; 106; 107.
- Sciocoris cursitans* (Fabricius) (Pentatomidae): 28; 34.
- Troilus luridus* (Fabricius) (Pentatomidae): 6; 36; 49; 51; 55; 57; 67; 73; 82; 83; 96.
- Zicrona caerulea* (Linnaeus) (Pentatomidae): 3; 35; 43; 47; 48; 49; 50; 51; 55; 56; 95.
- Arenocoris fallenii* (Schilling) (Coreidae): 25; 32; 42; 49.
- Bathysolen nubilus* (Fallén) (Coreidae): 29.
- Ceraleptus lividus* Stein (Coreidae): 25; 26; 31.
- Coreus marginatus* (Linnaeus) (Coreidae): 4; 6; 7; 26; 31; 33; 35; 47; 52; 56; 57; 59; 63; 64.
- Coriomeris denticulatus* (Scopoli) (Coreidae): 4; 6; 35; 36; 46; 49; 50; 51; 56; 59; 61; 62; 64; 69.
- Enoplops scapha* (Fabricius) (Coreidae): 34.
- Gonocerus acuteangulatus* (Goeze) (Coreidae): 6; 7; 8; 14; 15; 25; 29; 32; 37; 38; 53.
- Leptoglossus occidentalis* Heidemann (Coreidae): 1; 3; 4; 5; 6; 7; 8; 16; 24; 26; 29; 31; 34; 36; 39; 41; 43; 44; 45; 46; 48; 49; 50; 51; 52; 59; 61; 65; 67; 70; 71; 74; 85; 90; 111; H21; H40.
- Spathocera dalmanii* (Schilling) (Coreidae): 18; 26.
- Syromastus rhombeus* (Linnaeus) (Coreidae): 14; 35.
- Alydus calcaratus* (Linnaeus) (Alydidae): 13; 39; 46; 52.
- Chorosoma schillingii* (Schilling) (Rhopalidae): 13; 42; 51; 56.
- Corizus hyoscyami* (Linnaeus) (Rhopalidae): 5; 26; 39; 42; 55; 56; 57; 60; 64; 66; 71.
- Liorhyssus hyalinus* (Fabricius) (Rhopalidae): 3; 5.
- Myrmus miriformis* (Fallén) (Rhopalidae): 6; 31; 41; 49; 67; 69.
- Rhopalus maculatus* (Fieber) (Rhopalidae): 26.
- Rhopalus parumpunctatus* Schilling (Rhopalidae): 10; 13; 25; 46; 52.
- Rhopalus rufus* Schilling (Rhopalidae): 25.
- Rhopalus subrufus* (Gmelin) (Rhopalidae): 6; 7; 25; 31; 35; 36; 43; 47; 49; 56; 59; 61; 66; 69.
- Stictopleurus abutilon* (Rossi) (Rhopalidae): 13; 14.
- Stictopleurus punctatonervosus* (Goeze) (Rhopalidae): 15; 25; 55; 61.
- Pyrrhocoris apterus* (Linnaeus) (Pyrrhocoridae): 6; 13; 15; 34; 36.
- Dicranocephalus medius* (Mulsant & Rey) (Stenocephalidae): 6; 14.
- Acompus rufipes* (Wolff) (Lygaeidae): 35; 39; 57.
- Beosus maritimus* (Scopoli) (Lygaeidae): 44.
- Chilacis typhae* (Perris) (Lygaeidae): 3; 34; 43; 50; 51; 56; 57; 69.
- Cymus claviculus* (Fallén) (Lygaeidae): 26; 32; 49; 52; 70.
- Cymus glandicolor* Hahn (Lygaeidae): 35; 42; 43; 47; 49; 57.
- Cymus melanocephalus* Fieber (Lygaeidae): 3; 6; 14; 25; 35; 41; 42; 43; 49; 52; 55; 59; 67.
- Drymus brunneus* (R.F. Sahlberg) (Lygaeidae): 6; 43; 48; 77; 81; 82; 90; 104; 107; 108.
- Drymus latus* Douglas & Scott (Lygaeidae): 50.
- Drymus pumilio* Puton (Lygaeidae): 35.
- Drymus ryeii* Douglas & Scott (Lygaeidae): 6; 14; 35; 46; 49; 52; 55; 69; 96.
- Drymus sylvaticus* (Fabricius) (Lygaeidae): 43; 45; 67; 86; 94; 96; 106; 108.
- Eremocoris plebejus* (Fallén) (Lygaeidae): 17; 69; 106.

- Eremocoris podagricus* (Fabricius) (Lygaeidae): 9; 55; 63.
Gastrodes abietum Bergroth (Lygaeidae): 26; 96.
Gastrodes grossipes (De Geer) (Lygaeidae): 35; 56; 69; 82; 105; 107.
Graptopeltus lynceus (Fabricius) (Lygaeidae): 4.
Heterogaster artemisiae Schilling (Lygaeidae): 6; 70.
Heterogaster urticae (Fabricius) (Lygaeidae): 3; 6; 7; 34; 35; 37; 43; 45; 46; 47; 49; 50; 52; 55; 56; 69; 70.
Ischnocoris angustulus (Boheman) (Lygaeidae): 46; 48.
Ischnodemus sabuleti (Fallén) (Lygaeidae): 35; 41.
Kleidocerys ericae (Horváth) (Lygaeidae): 45; 96; 97.
Kleidocerys resedae (Panzer) (Lygaeidae): 6; 31; 42; 48; 49; 50; 52; 69; 70; 96.
Lamproplax picea (Flor) (Lygaeidae): 15; 42; 43; 50; 52.
Lasiosomus enervis (Herrich-Schaeffer) (Lygaeidae): 35.
Macrodema microptera (Curtis) (Lygaeidae): 26; 41; 52; 56; 71; 96; H38.
Megalonotus chiragra (Fabricius) (Lygaeidae): 6; 9; 35; 41; 49; 70.
Megalonotus dilatatus (Herrich-Schaeffer) (Lygaeidae): 52.
Megalonotus emarginatus (Rey) (Lygaeidae): 55.
Megalonotus praetextatus (Herrich-Schaeffer) (Lygaeidae): 49.
Nysius ericae (Schilling) (Lygaeidae): 15; 25; 41; 48; 70; 86; 96.
Nysius graminicola (Kolenati) (Lygaeidae): 15.
Nysius senecionis (Schilling) (Lygaeidae): 25.
Nysius thymi (Wolff) (Lygaeidae): 6; 25; 26; 41; 48; 49; 63; 67; 68; 70; 84; 86; 105; 108.
Orsillus depressus (Mulsant & Rey) (Lygaeidae): 55.
Pachybrachius fracticollis (Schilling) (Lygaeidae): 41; 42; 43; 47; 49; 50; 52; 69.
Pachybrachius luridus Hahn (Lygaeidae): 48; 52.
Peritrechus geniculatus (Hahn) (Lygaeidae): 3; 6; 35; 45; 49; 52; 69; 70; 71.
Peritrechus lundii (Gmelin) (Lygaeidae): 6; 25; 35; 46; 49; 52.
Peritrechus nubilus (Fallén) (Lygaeidae): 32.
Plinthisus brevipennis (Latreille) (Lygaeidae): 6; 34; 56; 70.
Raglius alboacuminatus (Goeze) (Lygaeidae): 26.
Rhyparochromus pini (Linnaeus) (Lygaeidae): 49.
Rhyparochromus vulgaris (Schilling) (Lygaeidae): 25.
Scolopostethus affinis (Schilling) (Lygaeidae): 35; 49; 71; 86; 96.
Scolopostethus decoratus (Hahn) (Lygaeidae): 35; 42; 43; 47; 67; 95; 97; 105; 108; 111; H38.
Scolopostethus grandis Horváth (Lygaeidae): 35; 47; 48; 50; 52; 62; 63.
Scolopostethus puberulus Horváth (Lygaeidae): 6; 35; 41; 49; 50; 63.
Scolopostethus thomsoni Reuter (Lygaeidae): 6; 35; 49; 52; 75; 95; 105; 111.
Stygnocoris fuliginus (Geoffroy) (Lygaeidae): 6; 26; 35; 47; 51; 96; 106; H38.
Stygnocoris rusticus (Fallén) (Lygaeidae): 35; 50; 68; 96.
Stygnocoris sabulosus (Schilling) (Lygaeidae): 4; 6; 43; 50; 67; 77; 108; 111; H38.
Taphropeltus contractus (Herrich-Schaeffer) (Lygaeidae): 6; 49.
Trapezonotus arenarius (Linnaeus) (Lygaeidae): 17; 48; 52; 69; 70; 71.
Trapezonotus desertus Seidenstücker (Lygaeidae): 15; 25; 41; 48; 52; 70; 74; 95.
Trapezonotus dispar Stål (Lygaeidae): 41.
Trapezonotus ullrichi (Fieber) (Lygaeidae): 4.
Tropistethus holosericus (Scholtz) (Lygaeidae): 41.
Xanthochilus quadratus (Fabricius) (Lygaeidae): 58.
Berytinus crassipes (Herrich-Schaeffer) (Berytidae): 30; 41; 45; 49.
Berytinus hirticornis (Brullé) (Berytidae): 16.
Berytinus minor (Herrich-Schaeffer) (Berytidae): 57; 63; 85.
Berytinus montivagus (Meyer-Dür) (Berytidae): 19.
Berytinus signoreti (Fieber) (Berytidae): 12; 35; 49; 66; 96.
Gampsocoris punctipes (Germar) (Berytidae): 50; 69; 71.
Metatropis rufescens (Herrich-Schaeffer) (Berytidae): 4; 13; 15; 26; 35; 42; 43; 48; 49; 52; 55; 57; 58.
Neides tipularius (Linnaeus) (Berytidae): 34; 69.

- Parapiesma quadratum* (Fieber) (Piesmatidae): 6; 50; 51; 63; 69; 96.
Piesma maculatum (Laporte) (Piesmatidae): 6; 34; 96.
Acalypta brunnea (Germar) (Tingidae): 15; 69; 70; 96; 104.
Acalypta carinata (Panzer) (Tingidae): 26; 33; 43; 48; 49; 50; 52; 69; 77; 111.
Acalypta nigrina (Fallén) (Tingidae): 15; 94; 107.
Acalypta parvula (Fallén) (Tingidae): 35; 42; 49; 50; 51; 68; 96; 105; 106; 107; 108; 111; H38.
Agramma laetum (Fallén) (Tingidae): 13; 48; 49; 52; 56.
Campylosteira verna (Fallén) (Tingidae): 2; 5; 14; 32; 42; 49.
Derephysia foliacea (Fallén) (Tingidae): 43.
Dictyla convergens (Herrich-Schaeffer) (Tingidae): 3; 15; 35; 42; 46; 49; 50; 52; 55; 57.
Dictyonota fuliginosa A. Costa (Tingidae): 56.
Dictyonota strichnocera Fieber (Tingidae): 4; 26; 42; 69.
Kalama tricornis (Schrank) (Tingidae): 35.
Physatocheila dumetorum (Herrich-Schaeffer) (Tingidae): 4; 35; 36; 55.
Stephanitis takeyai Drake & Maa (Tingidae): 41.
Tingis ampliata (Herrich-Schaeffer) (Tingidae): 44; 45; 47; 49; 52; 55; 59; 62.
Tingis cardui (Linnaeus) (Tingidae): 35; 50; 69; 75; 82; 83; 84; 97; 108.
Tingis reticulata Herrich-Schaeffer (Tingidae): 41.
Coranus woodroffe P.V. Putshkov (Reduviidae): 41; 52; 70.
Empicoris baerensprungi (Dohrn) (Reduviidae): 15.
Empicoris vagabundus (Linnaeus) (Reduviidae): 36; 52; 81; 82; 85; 107.
Reduvius personatus (Linnaeus) (Reduviidae): 57.
Himacerus apterus (Fabricius) (Nabidae): 6; 35; 36; 41; 55; 57.
Himacerus boops (Schjødte) (Nabidae): 14; 41; 52.
Himacerus major (A. Costa) (Nabidae): 35; 50; 51; 68; 69; 73; 91; 96.
Himacerus mirmicoides (O. Costa) (Nabidae): 4; 56; 57; 61; 70.
Nabis brevis Scholtz (Nabidae): 16; 34.
Nabis ericetorum Scholtz (Nabidae): 45; 48; 50; 55; 67; 97; 105; 106; 107.
Nabis ferus (Linnaeus) (Nabidae): 6; 25; 35; 47; 50; 86; 96; 106.
Nabis flavomarginatus Scholtz (Nabidae): 35; 51; 75; 82; 83; 84; 90; 95; 107; 108; 111.
Nabis limbatus Dahlbom (Nabidae): 6; 51; 75; 76; 77; 97; 98; 107; 108; 111.
Nabis lineatus Dahlbom (Nabidae): 26; 39; 49; 57; 59; 67; 70; 95; 96.
Nabis pseudoferus Remane (Nabidae): 6; 70.
Nabis rugosus (Linnaeus) (Nabidae): 4; 51; 67; 69; 75; 96; 106.
Acompocoris alpinus Reuter (Anthocoridae): 33; 35; 40; 70; 105; 107.
Acompocoris pygmaeus (Fallén) (Anthocoridae): 35; 47; 52; 82; 83; 105.
Anthocoris confusus Reuter (Anthocoridae): 4; 6; 25; 42; 50; 51; 52; 67; 96; 105; 106; H40.
Anthocoris gallarumulmi (De Geer) (Anthocoridae): 26; 69; 96.
Anthocoris limbatus Fieber (Anthocoridae): 6; 49.
Anthocoris minki Dohrn (Anthocoridae): 15.
Anthocoris nemoralis (Fabricius) (Anthocoridae): 35; 42; 50; 51; 68; 75; 80; 82; 83; 86; 94; 95; 96; 97; 108; 109; 111.
Anthocoris nemorum (Linnaeus) (Anthocoridae): 4; 25; 50; 51; 75; 76; 80; 84; 91; 93; 94; 97; 108; 109; 111; H40.
Anthocoris sarothamni Douglas & Scott (Anthocoridae): 35; 41; 57; 61; 63; 96; 105; 107.
Anthocoris simulans Reuter (Anthocoridae): 15; 34; 35; 41; 58; 70; 96; 106; 108.
Anthocoris visci Douglas (Anthocoridae): 33; 35.
Brachysteles parvicornis (A. Costa) (Anthocoridae): 15.
Buchananiella continua (F.B. White) (Anthocoridae): 2.
Cardiastethus fasciiventris (Garbiglietti) (Anthocoridae): 14; 37.
Dufouriellus ater (Dufour) (Anthocoridae): 35; 57.
Elatophilus nigricornis (Zetterstedt) (Anthocoridae): 70; 72.
Lyctocoris campestris (Fabricius) (Anthocoridae): 96; 106.
Orius laevigatus (Fieber) (Anthocoridae): 6; 29; 35; 41; 49; 52.
Orius laticollis (Reuter) (Anthocoridae): 35; 42.

- Orius majusculus* (Reuter) (Anthocoridae): 35; 41; 43; 50.
Orius niger (Wolff) (Anthocoridae): 6; 25; 31; 35; 50; 70.
Orius vicinus (Ribaut) (Anthocoridae): 6; 14; 16; 25; 26; 35; 37; 41; 49; 63; 70.
Temnostethus gracilis Horváth (Anthocoridae): 35; 37; 41; 42; 57; 58; 67; 70; 95; 105; 107; 108.
Temnostethus pusillus (Herrich-Schaeffer) (Anthocoridae): 35; 41; 57; 63; 70; 95; 106.
Tetraphleps bicuspis (Herrich-Schaeffer) (Anthocoridae): 35; 96; 105.
Xylocoris cursitans (Fallén) (Anthocoridae): 7; 13; 25; 47.
Cimex lectularius Linnaeus (Cimicidae): 49; 69; 104; 105.
Cimex pipistrelli Jenyns (Cimicidae): 17; 39; 41; 47; 49; 52; 70.
Loricula distinguenda (Reuter) (Microphysidae): 4; 35; 51; 52; 64; 70.
Loricula elegantula (Baerensprung) (Microphysidae): 3; 35; 46; 52; 55; 69; 70.
Loricula exilis (Fallén) (Microphysidae): 26; 47; 52; 56; 70; 95; 105; 108.
Loricula pselaphiformis Curtis (Microphysidae): 35; 48; 49; 50; 94.
Acetropis gimmerthallii (Flor) (Miridae): 35; 41; 42.
Adelphocoris lineolatus (Goeze) (Miridae): 6; 35; 42; 68; 69; 75; 82; 91; 96.
Adelphocoris ticinensis (Meyer-Dür) (Miridae): 15; 38.
Alloeotomus gothicus (Fallén) (Miridae): 25; 35; 57; 63.
Amblytylus brevicollis Fieber (Miridae): 15; 69.
Amblytylus delicatus (Perris) (Miridae): 25.
Amblytylus nasutus (Kirschbaum) (Miridae): 6; 35; 41; 67.
Apolygus lucorum (Meyer-Dür) (Miridae): 19; 48; 75; 83; 85; 105.
Apolygus spinolae (Meyer-Dür) (Miridae): 6; 35; 47; 52; 69; 70.
Asciodema obsoleta (Fieber) (Miridae): 4; 15; 26; 50; 52; 55; 69; 75; 105; 108.
Atractotomus magnicornis (Fallén) (Miridae): 46; 67; 95.
Atractotomus mali (Meyer-Dür) (Miridae): 14; 26; 35; 41.
Atractotomus parvulus Reuter (Miridae): 15; 56; 82; 92; 96.
Blepharidopterus angulatus (Fallén) (Miridae): 50; 51; 52; 67; 75; 83.
Bothynotus pilosus (Boheman) (Miridae): 95; 104; 111.
Brachyarthrum limitatum Fieber (Miridae): 6; 57.
Bryocoris pteridis (Fallén) (Miridae): 6; 13; 35; 52; 83; 96.
Calocoris alpestris (Meyer-Dür) (Miridae): 6; 35; 47; 49; 50; 51; 55; 96.
Calocoris roseomaculatus (De Geer) (Miridae): 35; 42; 50; 69; 75; 86; 109.
Camptozygum aequale (Villers) (Miridae): 26; 96; 105.
Campylomma annulicorne (Signoret) (Miridae): 15.
Campylomma verbasci (Meyer-Dür) (Miridae): 9.
Campyloneura virgula (Herrich-Schaeffer) (Miridae): 4; 35; 37; 49; 52; 67; 69; 77; 85; 96.
Capsus ater (Linnaeus) (Miridae): 3; 4; 25; 35; 49; 50; 51; 75; 77; 80; 82; 84; 87; 105; 111.
Charagochilus gyllenhalii (Fallén) (Miridae): 35; 41; 42; 52; 69; 96; 105.
Chlamydatius evanescens (Boheman) (Miridae): 48.
Chlamydatius pulicarius (Fallén) (Miridae): 63; 69.
Chlamydatius pullus (Reuter) (Miridae): 77; 86; 107.
Chlamydatius saltitans (Fallén) (Miridae): 52; 96.
Chlamydatius wilkinsoni (Douglas & Scott) (Miridae): 43; 69.
Closterotomus fulvomaculatus (De Geer) (Miridae): 34; 35.
Closterotomus norwegicus (Gmelin) (Miridae): 4; 25; 35; 51; 67; 69; 75; 76; 77; 82; 84; 86; 98; 99; 108.
Compsidolon salicellum (Herrich-Schaeffer) (Miridae): 35; 57; 59; 69.
Conostethus brevis Reuter (Miridae): 25; 107.
Conostethus griseus Douglas & Scott (Miridae): 15; 41.
Conostethus roseus (Fallén) (Miridae): 57.
Cyllecoris histrionius (Linnaeus) (Miridae): 34; 35; 43; 47; 48; 49; 51; 65; 75; 96; 106; 107.
Cyrtorhinus caricis (Fallén) (Miridae): 15; 35; 43; 50; 51; 69; 105; 106; 108.
Deraeocoris flavilinea (A. Costa) (Miridae): 3; 6; 16; 25; 41; 55; 77.
Deraeocoris lutescens (Schilling) (Miridae): 35; 45; 46; 55; 57; 61; 69; 75.
Deraeocoris olivaceus (Fabricius) (Miridae): 11; 34; 35.

- Deraeocoris ruber* (Linnaeus) (Miridae): 35; 50; 57.
Deraeocoris scutellaris (Fabricius) (Miridae): 1; 15; 39; 60; 96.
Dichrooscytus gustavi Josifov (Miridae): 29.
Dichrooscytus rufipennis (Fallén) (Miridae): 1; 6; 15; 44; 45; 46; 48; 49; 52; 82; 106.
Dicyphus annulatus (Wolff) (Miridae): 49; 58; 68.
Dicyphus constrictus (Boheman) (Miridae): 6; 15; 35; 42; 57; 70.
Dicyphus epilobii Reuter (Miridae): 4; 13; 25; 35; 46; 51; 52; 64; 69; 75; 83; 96.
Dicyphus errans (Wolff) (Miridae): 4; 26; 35; 48; 51; 52; 55.
Dicyphus globulifer (Fallén) (Miridae): 4; 6; 35; 41; 64; 69; 82; 85; 96.
Dicyphus pallicornis (Fieber) (Miridae): 15; 42; 48; 51; 55; 67; 82; 83; 97; 105; 107; 108.
Dicyphus stachydis J. Sahlberg (Miridae): 6; 13; 35; 42; 47; 51; 52; 59; 69; 75; 77; 82; 83; 96; 104; 105.
Dryophilocoris flavoquadrinaculatus (De Geer) (Miridae): 3; 35; 42; 43; 47; 48; 57; 64; 67; 95; 96; 106.
Fieberocapsus flaveolus (Reuter) (Miridae): 35.
Globiceps fulvicollis Jakovlev (Miridae): 41.
Globiceps juniperi Reuter (Miridae): 68; 70; 106.
Grypocoris stysi (Wagner) (Miridae): 14; 25; 42; 50; 51; 75; 76; 77; 82; 85; 87; 90; 95; 96.
Hallodapus rufescens (Burmeister) (Miridae): 7; 43; 48; 50; 106.
Halticus apterus (Linnaeus) (Miridae): 12; 52.
Halticus saltator (Geoffroy) (Miridae): 15.
Harpocera thoracica (Fallén) (Miridae): 43; 47; 50; 52; 96; 98; 106; 107.
Heterocordylus genistae (Scopoli) (Miridae): 15; 35; 43; 50; 96; 107.
Heterocordylus tibialis (Hahn) (Miridae): 4; 35; 48; 49; 75; 82; 105; 107; 108.
Heterotoma planicornis (Pallas) (Miridae): 4; 35; 42; 66; 69; 83; 86.
Hoplomachus thunbergii (Fallén) (Miridae): 6; 14; 27; 41; 66.
Hypseloecus visci (Puton) (Miridae): 27.
Leptopterna dolabrata (Linnaeus) (Miridae): 42; 50; 51; 68; 75; 76; 77; 80; 82; 83; 84; 86; 87; 93; 94; 95; 104; 105; 108; 110.
Leptopterna ferrugata (Fallén) (Miridae): 4; 35; 42; 51; 64; 73; 75; 82; 83; 84; 86; 87; 97; 98; 108; 109.
Liocoris tripustulatus (Fabricius) (Miridae): 3; 13; 35; 75; 83; 93; 104; 107; 108.
Lopus decolor (Fallén) (Miridae): 4; 6; 48; 50; 52; 69; 86; 96; 99.
Lygocoris pabulinus (Linnaeus) (Miridae): 4; 35; 51; 52; 75; 97; 105; 107; 108; 111.
Lygocoris rugicollis (Fallén) (Miridae): 34; 35; 48; 50; 52; 75; 83; 97; 108; 111.
Lygus maritimus Wagner (Miridae): 16; 25; 41; 48; 49; 68; 69; 70; 71; 84; 95; 96; 104; 107.
Lygus pratensis (Linnaeus) (Miridae): 25; 55; 66; 106.
Lygus punctatus (Zetterstedt) (Miridae): 69; 84; 86; 106; 107.
Lygus rugulipennis Poppius (Miridae): 14; 25; 42; 51; 62; 66; 67; 68; 70; 75; 76; 77; 80; 83; 84; 95; 99; 105; 107; 108; H38; H40.
Lygus wagneri Remane (Miridae): 6; 39; 41; 42; 45; 48; 49; 50; 69; 70; 72; 83; 86; 96; 97; 105.
Macrolophus pygmaeus (Rambur) (Miridae): 42; 46; 57; 63; 70; 96.
Macrolophus rubi Woodroffe (Miridae): 41; 57; 63; 96.
Macrotylus paykullii (Fallén) (Miridae): 4; 35; 66; 67; 69; 82.
Macrotylus solitarius (Meyer-Dür) (Miridae): 15; 42; 70.
Malacocoris chlorizans (Panzer) (Miridae): 4; 26; 35; 42; 96; 104; 105; 106; 108.
Mecomma ambulans (Fallén) (Miridae): 4; 52; 67; 69; 75; 80; 82; 97; 107; 108.
Mecomma dispar (Boheman) (Miridae): 1; 39; 52; 106.
Megacoelum beckeri (Fieber) (Miridae): 6; 11.
Megacoelum infusum (Herrich-Schaeffer) (Miridae): 6; 35; 42.
Megaloceroea recticornis (Geoffroy) (Miridae): 6; 35; 45; 52; 59; 67.
Megalocoleus molliculus (Fallén) (Miridae): 35; 49; 69; 70.
Megalocoleus tanacetii (Fallén) (Miridae): 52; 70; 86.
Miridius quadrvirgatus (A. Costa) (Miridae): 6; 26; 27; 35; 55; 59.
Miris striatus (Linnaeus) (Miridae): 6; 35; 48; 49; 50; 51; 59; 75; 77; 86; 99.
Monalocoris filicis (Linnaeus) (Miridae): 3; 4; 6; 47; 51; 52; 65; 67; 75; 83; 94; 105; 111.

- Monosynamma bohemanii* (Fallén) (Miridae): 41.
Monosynamma sabulicola (Wagner) (Miridae): 48; 69; 70.
Myrmecoris gracilis (R.F. Sahlberg) (Miridae): 6; 25; 35.
Neolygus contaminatus (Fallén) (Miridae): 35; 42; 52; 67; 69; 73; 75; 97; 111.
Neolygus populi (Leston) (Miridae): 16.
Neolygus viridis (Fallén) (Miridae): 4; 19; 35; 47; 48; 50; 55; 69; 75; 82; 96; 106; H38.
Notostira elongata (Geoffroy) (Miridae): 35; 36; 42; 48; 51; 62; 68; 69; 72; 75; 96.
Oncotylus viridiflavus (Goeze) (Miridae): 4; 6; 35; 41; 55; 56; 57; 61.
Orthocephalus coriaceus (Fabricius) (Miridae): 35.
Orthocephalus saltator (Hahn) (Miridae): 27; 34; 35; 50; 75; 106.
Orthonotus rufifrons (Fallén) (Miridae): 6; 13; 35; 42; 46.
Orthops basalis (A. Costa) (Miridae): 35; 55; 57; 62; 70; 95; 96; 107.
Orthops campestris (Linnaeus) (Miridae): 6; 14; 25; 26; 35; 41; 46; 49; 52; 68; 69; 70; 71; 77; 95; 97; 105; 108; 111.
Orthops kalmii (Linnaeus) (Miridae): 6; 15; 35; 41; 44; 46; 47; 49; 52; 56; 57; 70; 96.
Orthotylus adenocarpus (Perris) (Miridae): 70; 72; 96.
Orthotylus bilineatus (Fallén) (Miridae): 69; 105; 107.
Orthotylus concolor (Kirschbaum) (Miridae): 15; 19.
Orthotylus ericetorum (Fallén) (Miridae): 18; 26; 35; 43; 52; 69; 71; 105; 108; 111; H38; H39.
Orthotylus flavinervis (Kirschbaum) (Miridae): 42; 46; 57; 63; 70.
Orthotylus flavosparsus (C.R. Sahlberg) (Miridae): 6; 26.
Orthotylus fuscescens (Kirschbaum) (Miridae): 105.
Orthotylus marginalis Reuter (Miridae): 6; 35; 50; 52; 67; 75; 82; 83.
Orthotylus moncreaffi (Douglas & Scott) (Miridae): 41; 68.
Orthotylus nassatus (Fabricius) (Miridae): 25; 26; 35; 70.
Orthotylus ochrotrichus Fieber (Miridae): 6; 35; 43; 48; 55; 56; 57; 70; 105.
Orthotylus prasinus (Fallén) (Miridae): 82.
Orthotylus tenellus (Fallén) (Miridae): 4; 35; 69; 96.
Orthotylus virescens (Douglas & Scott) (Miridae): 4; 6; 35; 52; 95; 105.
Orthotylus viridinervis (Kirschbaum) (Miridae): 44; 63; 69; 75; 83.
Pachytomella parallela (Meyer-Dür) (Miridae): 41; 42; 44; 69; 70; 75; 82; 83; 95; 98; 101; 105; 107.
Pantilius tunicatus (Fabricius) (Miridae): 6; 35; 46; 47; 48; 52; 69; 96; 106; 107.
Parapsallus vitellinus (Scholtz) (Miridae): 47; 82; 96.
Phoenicocoris obscurellus (Fallén) (Miridae): 15; 82; 105.
Phylus coryli (Linnaeus) (Miridae): 35; 69; 104.
Phylus melanocephalus (Linnaeus) (Miridae): 35; 47; 48; 49; 75; 77; 85; 96; 105.
Phytocoris dimidiatus Kirschbaum (Miridae): 6; 52; 67; 104; 105; 106; 108.
Phytocoris insignis Reuter (Miridae): 16; 25.
Phytocoris longipennis Flor (Miridae): 15; 35; 52; 69; 85; 105; 106; H38.
Phytocoris pini Kirschbaum (Miridae): 82.
Phytocoris populi (Linnaeus) (Miridae): 6; 47; 50; 69; 80; 105.
Phytocoris reuteri Saunders (Miridae): 4; 6; 15; 34; 63.
Phytocoris tiliae (Fabricius) (Miridae): 35; 47; 52; 69; 83; 104; 106.
Phytocoris ulmi (Linnaeus) (Miridae): 4; 46.
Phytocoris varipes Boheman (Miridae): 3; 4; 35; 42; 51; 52; H38.
Pilophorus cinnamopterus (Kirschbaum) (Miridae): 5; 56; 92.
Pilophorus clavatus (Linnaeus) (Miridae): 9.
Pilophorus perplexus Douglas & Scott (Miridae): 6; 25; 33; 55; 57.
Pinalitus atomarius (Meyer-Dür) (Miridae): 46.
Pinalitus cervinus (Herrich-Schaeffer) (Miridae): 6; 35; 42; 52; 75; 83; 96; 105.
Pinalitus viscicola (Puton) (Miridae): 5; 33; 35; 70.
Pithanus maerkelii (Herrich-Schaeffer) (Miridae): 6; 35; 50; 75; 87; 97; 108.
Plagiognathus arbustorum (Fabricius) (Miridae): 4; 25; 35; 42; 51; 75; 76; 77; 82; 84; 97; 108; 110.
Plagiognathus chrysanthemi (Wolff) (Miridae): 25; 35; 42; 51; 60; 67; 75; 76; 77; 82; 84; 108.
Platycranus bicolor (Douglas & Scott) (Miridae): 15; 42; 45; 55; 57.

- Plesiodema pinetella* (Zetterstedt) (Miridae): 82; 96; 105.
Polymerus nigrita (Fallén) (Miridae): 14; 35; 41; 46; 50; 51; 55; 67; 69; 82; 83; 97; 106.
Polymerus palustris (Reuter) (Miridae): 6; 26; 35; 41; 43; 48; 52; 56; 70; 73.
Polymerus unifasciatus (Fabricius) (Miridae): 8; 13; 35; 43; 52; 69; 95.
Psallus ambiguus (Fallén) (Miridae): 35; 44; 48; 75; 82; 83.
Psallus assimilis Stichel (Miridae): 16; 34; 35; 63.
Psallus betuleti (Fallén) (Miridae): 41; 55; 95; 96; 104; 105; 108.
Psallus confusus Rieger (Miridae): 9; 41; 42; 49; 70; 96.
Psallus falleni Reuter (Miridae): 25; 69; 96.
Psallus flavellus Stichel (Miridae): 6; 35; 46; 64; 69; 70; 96.
Psallus haematodes (Gmelin) (Miridae): 50; 52; 97; 111.
Psallus lepidus Fieber (Miridae): 35; 46; 49; 83; 96; 105.
Psallus luridus Reuter (Miridae): 15; 96.
Psallus mollis (Mulsant & Rey) (Miridae): 44; 49; 56; 96; 105.
Psallus perrisi (Mulsant & Rey) (Miridae): 25; 35; 41; 47; 48; 57; 69; 106.
Psallus quercus (Kirschbaum) (Miridae): 63; 70.
Psallus salicis (Kirschbaum) (Miridae): 35; 49; 69; 96; 104; 106; 107.
Psallus variabilis (Fallén) (Miridae): 105.
Psallus varians (Herrich-Schaeffer) (Miridae): 26; 34; 35; 36; 51; 104; 105.
Psallus wagneri Ossiannilsson (Miridae): 16; 65.
Pseudoloxops coccineus (Meyer-Dür) (Miridae): 6; 34; 35; 37.
Rhabdomiris striatellus (Fabricius) (Miridae): 6; 35; 43; 45; 47; 65; 75; 77; 82; 96; 106.
Salicarus roseri (Herrich-Schaeffer) (Miridae): 35; 49; 55.
Stenodema calcarata (Fallén) (Miridae): 3; 4; 13; 31; 35; 47; 51; 75; 76; 77; 83; 86; 99; 103; 105; 108; H40.
Stenodema holsata (Fabricius) (Miridae): 6; 35; 47; 51; 75; 76; 77; 80; 82; 83; 84; 97; 108.
Stenodema laevigata (Linnaeus) (Miridae): 4; 25; 31; 42; 47; 50; 51; 66; 67; 68; 75; 76; 77; 84; 85; 86; 96; 99; 105.
Stenotus binotatus (Fabricius) (Miridae): 4; 13; 42; 50; 51; 69; 70; 75; 77; 85; 86; 106; 110.
Sthenarus rotermundi (Scholtz) (Miridae): 46; 63.
Strongylocoris leucocephalus (Linnaeus) (Miridae): 32; 69; 96.
Strongylocoris luridus (Fallén) (Miridae): 49.
Teratocoris antennatus (Boheman) (Miridae): 6; 35; 41; 49; 67.
Teratocoris caricis Kirkaldy (Miridae): 70.
Teratocoris saundersi Douglas & Scott (Miridae): 13; 19; 41; 42; 43; 50; 105; 108; 111.
Teratocoris viridis Douglas & Scott (Miridae): 50; 70.
Tinicephalus hortulanus (Meyer-Dür) (Miridae): 49; 69.
Trigonotylus caelestialium (Kirkaldy) (Miridae): 15; 35; 52; 55; 68; 86; 95.
Trigonotylus psammaecolor Reuter (Miridae): 48; 52; 69.
Trigonotylus ruficornis (Geoffroy) (Miridae): 14; 15; 25; 35; 41; 42; 44; 52; 56; 57; 63; 66; 68; 69; 70; 72; 75; 86; 97; 104; 105; 108; 111.
Tupiocoris rhododendri (Dolling) (Miridae): 15; 44.
Tuponia brevirostris Reuter (Miridae): 15.
Tytthus pubescens (Knight) (Miridae): 35; 41; 52.
Tytthus pygmaeus (Zetterstedt) (Miridae): 32; 35; 41; 48; 50; 52; 63.
Ceratocombus coleoptratus (Zetterstedt) (Ceratocombidae): 49; 50; 96.
Cryptostemma alienum Herrich-Schaeffer (Dipsocoridae): 36; 48; 50; 66; 67; 71; 97; 105.
Pachycoleus waltli Fieber (Dipsocoridae): 69.
Chartoscirta cincta (Herrich-Schaeffer) (Saldidae): 5; 31; 35; 42; 47; 48; 50; 71; 77; 83; 84; 86; 96; 106; 111; H40.
Chartoscirta cocksii (Curtis) (Saldidae): 6; 19; 35; 42; 43; 47; 48; 50; 52; 67; 69.
Chartoscirta elegantula (Fallén) (Saldidae): 11; 26; 42; 48; 49.
Halosalda lateralis (Fallén) (Saldidae): 5; 49; 69; 96.
Macrosaldula scotica (Curtis) (Saldidae): 35; 36; 43; 47; 48; 75; 76; 107; 109.
Micracanthia marginalis (Fallén) (Saldidae): 50.

Salda littoralis (Linnaeus) (Saldidae): 5; 33; 42; 43; 97; 108.
Salda morio Zetterstedt (Saldidae): 41; 42; 43; 47; 48; 50; 69; 107; 108.
Salda muelleri (Gmelin) (Saldidae): 35; 49; 50; 52; 69; 102.
Saldula arenicola (Scholtz) (Saldidae): 16.
Saldula c-album (Fieber) (Saldidae): 22; 48; 69; 73; 77; 104; 105; 108.
Saldula fucicola (J. Sahlberg) (Saldidae): 36; 68; 69.
Saldula opacula (Zetterstedt) (Saldidae): 15; 41; 44; 45; 46; 59; 62; 108.
Saldula orthochila (Fieber) (Saldidae): 47; 84; 89; 108; 111.
Saldula pallipes (Fabricius) (Saldidae): 6; 7; 15; 25; 31; 39; 52; 57; 59; 68.
Saldula palustris (Douglas) (Saldidae): 15; 25; 34; 41; 50; 52; 59; 69; 73; 95; 96; 108.
Saldula pilosella (Thomson) (Saldidae): 6; 27.
Saldula saltatoria (Linnaeus) (Saldidae): 6; 8; 35; 42; 50; 51; 67; 75; 77; 82; 83; 84; 108; 111.
Teloleuca pellucens (Fabricius) (Saldidae): 69; 108.
Mesovelis furcata Mulsant & Rey (Mesoveliidae): 37; 40; 83.
Hebrus pusillus (Fallén) (Hebridae): 41.
Hebrus ruficeps Thomson (Hebridae): 6; 14; 26; 33; 35; 40; 42; 50; 51; 54; 55; 57; 66.
Hydrometra gracilenta Horváth (Hydrometridae): 33; 40; 60.
Hydrometra stagnorum (Linnaeus) (Hydrometridae): 67; 68; 98.
Microvelia pygmaea (Dufour) (Veliidae): 6; 23; 24; 26; 27; 37.
Microvelia reticulata (Burmeister) (Veliidae): 4; 40; 51; 55; 60; 68; 87; 96; 99.
Velia caprai Tamanini (Veliidae): 7.
Velia saulii Tamanini (Veliidae): 3; 55; 93.
Aquarius najas (De Geer) (Gerridae): 8; 34; 37; 40; 108; 109.
Aquarius paludum (Fabricius) (Gerridae): 15; 19; 28; 40.
Gerris argentatus Schummel (Gerridae): 4; 7; 24; 26; 37; 45.
Gerris costae (Herrich-Schaeffer) (Gerridae): 87.
Gerris gibbifer Schummel (Gerridae): 26; 28; 31; 36; 55; 57; 82.
Gerris lacustris (Linnaeus) (Gerridae): 109; 110.
Gerris lateralis Schummel (Gerridae): 14; 15; 20; 25; 26; 27; 36; 42; 43; 50; 51; 53; 54; 71; 109.
Gerris odontogaster (Zetterstedt) (Gerridae): 3; 8; 40; 47; 55.
Gerris thoracicus Schummel (Gerridae): 6; 8; 26; 40; 43.
Limnporus rufoscutellatus (Latreille) (Gerridae): 56.
Nepa cinerea Linnaeus (Nepidae): 8; 68; 84; 108; H40.
Ranatra linearis (Linnaeus) (Nepidae): 37; 39; 55.
Ilyocoris cimicoides (Linnaeus) (Naucoridae): 8; 40; 43; 50; 51; 65; 69.
Aphelocheirus aestivalis (Fabricius) (Aphelocheiridae): 34; 39; 86; 97; 107; 108; 109.
Notonecta maculata Fabricius (Notonectidae): 5; 8; 36; 37; 45; 60; 74.
Notonecta obliqua Thunberg (Notonectidae): 37; 56; 109; 111.
Notonecta viridis Delcourt (Notonectidae): 37; 65.
Plea minutissima Leach (Pleidae): 48.
Arctocoris carinata (C.R. Sahlberg) (Corixidae): 16; 92; 97.
Arctocoris germari (Fieber) (Corixidae): 6; 19; 55; 101.
Callicorixa praeusta (Fieber) (Corixidae): 13; 37; 42; 44.
Callicorixa wollastoni (Douglas & Scott) (Corixidae): 40; 52.
Corixa affinis Leach (Corixidae): 5; 27; 34; 41; 51; 56.
Corixa dentipes Thomson (Corixidae): 6; 8; 16; 35; 37; 41; 51; 60.
Corixa panzeri Fieber (Corixidae): 7; 37; 45; 85; 89.
Corixa punctata (Illiger) (Corixidae): 43.
Cymatia bonsdorffii (C.R. Sahlberg) (Corixidae): 16; 25; 31; 37; 55; 86.
Cymatia coleoprata (Fabricius) (Corixidae): 37; 40; 62; 66.
Hesperocorixa castanea (Thomson) (Corixidae): 15; 26; 37; 59.
Hesperocorixa linnaei (Fieber) (Corixidae): 13; 37.
Hesperocorixa moesta (Fieber) (Corixidae): 5; 7; 35; 40; 57; 61.
Micronecta minutissima (Linnaeus) (Corixidae): 14; 15.
Micronecta poweri (Douglas & Scott) (Corixidae): 5; 24; 54; 56; 66; 67; 81.

Micronecta scholtzi (Fieber) (Corixidae): 5; 7; 8; 28; 40.
Paracorixa concinna (Fieber) (Corixidae): 6; 7; 13; 34; 37; 55.
Sigara distincta (Fieber) (Corixidae): 5; 7.
Sigara falleni (Fieber) (Corixidae): 2; 33; 109.
Sigara fossarum (Leach) (Corixidae): 2; 5; 8; 50; 55; 90.
Sigara iactans Jansson (Corixidae): 57.
Sigara lateralis (Leach) (Corixidae): 7; 42; 43; 47; 109.
Sigara limitata (Fieber) (Corixidae): 6; 8; 27; 37; 44; 53; 60.
Sigara nigrolineata (Fieber) (Corixidae): 6; 97; 98; 99; 100; 103; 106; 107; 108; 109; 111.
Sigara scotti (Douglas & Scott) (Corixidae): 5; 35; 37; 39; 40; 44; 64.
Sigara selecta (Fieber) (Corixidae): 27; 41; 56.
Sigara semistriata (Fieber) (Corixidae): 5; 12; 26; 41; 62.
Sigara striata (Linnaeus) (Corixidae): 16; 55.
Sigara venusta (Douglas & Scott) (Corixidae): 4; 6; 40; 53; 107.

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TABLE 1 (CONTINUED).

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NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA FROM THE BIODIVERSITY IRELAND WEBSITE

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The Irish equivalent to the NBN Atlas (<http://www.nbnatlas.org/>) is the Biodiversity Ireland website of the National Biodiversity Data Centre (<http://www.biodiversityireland.ie/>), and having brought the vice-county distribution into line with the former with the previous article in this journal, it remained to do likewise with the latter, to ensure that the vice-county distribution includes the records from all sources known to me.

The Biodiversity Ireland website has a 'live maps' feature allowing the records for chosen species to be plotted as grid squares onto a map of Ireland with vice-county boundaries shown. The plotted grid squares can be clicked with the mouse to display the record details. Using these facilities, the vice-county of each plotted record can be deduced, and if there is uncertainty, the facilities of the Botanical Society of Britain and Ireland website (<https://database.bsbi.org/gridref.php>) can be used to confirm the correct vice-county corresponding to the grid reference of the record.

By comparing the mapped records of the Biodiversity Ireland website with a draft copy of the vice-county atlas, species by species, between 22 April and 7 May 2018, new vice-county records were identified. These records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). A total of 1325 new vice-county records were found, which are listed below, with the vice-county codes following the species names.

- Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae): H4; H7; H8; H13; H15; H18; H24; H26; H34; H35.
- Elasmostethus interstinctus* (Linnaeus) (Acanthosomatidae): H4; H7; H8; H10; H11; H13; H14; H18; H25; H32; H33; H40.
- Elasmucha grisea* (Linnaeus) (Acanthosomatidae): H4; H6; H7; H9; H13; H14; H15; H16; H17; H27; H33; H40.
- Eurygaster testudinaria* (Geoffroy) (Scutelleridae): H11; H13; H14; H15; H19; H24; H25; H26.
- Dolycoris baccarum* (Linnaeus) (Pentatomidae): H10; H13; H14; H17; H18; H21; H22; H24; H25; H30; H31; H37.
- Palomena prasina* (Linnaeus) (Pentatomidae): H14; H15; H18; H21; H22; H23; H24; H25; H27; H28; H31; H32.
- Pentatoma rufipes* (Linnaeus) (Pentatomidae): H12; H13; H15; H18; H22; H23; H24; H25; H32; H33; H36; H40.
- Picromerus bidens* (Linnaeus) (Pentatomidae): H8; H13; H14; H17; H24; H27; H28; H31; H32; H34; H36; H37; H39; H40.
- Piezodorus lituratus* (Fabricius) (Pentatomidae): H4; H8; H9; H13; H15; H18; H23; H24; H27; H28; H32; H34; H40.
- Rhacognathus punctatus* (Linnaeus) (Pentatomidae): H3; H7; H13.
- Troilus luridus* (Fabricius) (Pentatomidae): H3; H4; H10; H11; H12; H13; H14; H19; H25; H27; H28; H33; H35; H37; H39; H40.
- Zicrona caerulea* (Linnaeus) (Pentatomidae): H6; H9; H33; H36; H37; H38; H39.
- Coreus marginatus* (Linnaeus) (Coreidae): H4; H7; H9; H13.
- Chilacis typhae* (Perris) (Lygaeidae): H4; H12; H13; H15; H33; H37; H38; H39.
- Cymus claviculus* (Fallén) (Lygaeidae): H9; H11; H13; H17; H26; H38.
- Cymus glandicolor* Hahn (Lygaeidae): H14; H18; H24; H26; H32; H33; H35; H36; H37; H40.
- Drymus brunneus* (R.F. Sahlberg) (Lygaeidae): H1; H23; H32; H33; H39.
- Drymus pilicornis* (Mulsant & Rey) (Lygaeidae): H15.
- Drymus sylvaticus* (Fabricius) (Lygaeidae): H9; H13; H30; H32; H35; H36; H40.
- Gastrodes grossipes* (De Geer) (Lygaeidae): H7; H13; H14; H23; H33; H37; H38.

- Kleidocerys resedae* (Panzer) (Lygaeidae): H3; H4; H7; H8; H16; H33; H37; H38; H39; H40.
- Lamproplax picea* (Flor) (Lygaeidae): H9; H25; H30; H32; H33; H38.
- Megalonotus chiragra* (Fabricius) (Lygaeidae): H12.
- Nysius thymi* (Wolff) (Lygaeidae): H9; H16; H21; H38; H40.
- Pachybrachius fracticollis* (Schilling) (Lygaeidae): H9; H10; H11; H12; H14; H15; H19; H23; H25; H26; H27; H28; H29; H30; H32; H34; H35; H36; H37; H38; H39.
- Scolopostethus affinis* (Schilling) (Lygaeidae): H9; H38; H40.
- Scolopostethus decoratus* (Hahn) (Lygaeidae): H3; H9; H29; H33; H36; H39; H40.
- Scolopostethus puberulus* Horváth (Lygaeidae): H30; H32; H37; H38.
- Scolopostethus thomsoni* Reuter (Lygaeidae): H33; H36; H38; H40.
- Stygnocoris fuliginus* (Geoffroy) (Lygaeidae): H12; H40.
- Stygnocoris rusticus* (Fallén) (Lygaeidae): H26; H27; H40.
- Stygnocoris sabulosus* (Schilling) (Lygaeidae): H13; H24; H25; H31; H32; H33; H35; H36; H40.
- Trapezonotus arenarius* (Linnaeus) (Lygaeidae): H9; H38.
- Berytinus minor* (Herrich-Schaeffer) (Berytidae): H9; H20; H22; H37; H38.
- Berytinus signoreti* (Fieber) (Berytidae): H16.
- Metatropis rufescens* (Herrich-Schaeffer) (Berytidae): H1; H13; H20; H25; H37.
- Parapiesma quadratum* (Fieber) (Piesmatidae): H38; H39.
- Acalypta brunnea* (Germar) (Tingidae): H38; H39.
- Acalypta parvula* (Fallén) (Tingidae): H4; H5; H15.
- Derephysia foliacea* (Fallén) (Tingidae): H9.
- Dictyla convergens* (Herrich-Schaeffer) (Tingidae): H4; H36; H37; H38.
- Tingis cardui* (Linnaeus) (Tingidae): H4; H5; H6; H13; H19; H25; H26; H27; H31; H33; H38; H39; H40.
- Empicoris vagabundus* (Linnaeus) (Reduviidae): H33; H38.
- Himacerus major* (A. Costa) (Nabidae): H38.
- Himacerus mirmicoides* (O. Costa) (Nabidae): H4; H13; H22; H39.
- Nabis ericetorum* Scholtz (Nabidae): H14; H16; H33; H36; H37; H38; H40.
- Nabis ferus* (Linnaeus) (Nabidae): H38.
- Nabis flavomarginatus* Scholtz (Nabidae): H13; H33; H38.
- Nabis limbatus* Dahlbom (Nabidae): H10; H26; H32; H34; H35; H36; H38.
- Nabis lineatus* Dahlbom (Nabidae): H12; H15; H16; H36; H38.
- Nabis rugosus* (Linnaeus) (Nabidae): H13; H16; H33; H35; H38; H39; H40.
- Acompocoris pygmaeus* (Fallén) (Anthocoridae): H10; H37; H39.
- Anthocoris confusus* Reuter (Anthocoridae): H25; H31; H33; H36; H37; H38; H39.
- Anthocoris limbatus* Fieber (Anthocoridae): H36.
- Anthocoris nemoralis* (Fabricius) (Anthocoridae): H9; H16; H23; H24; H32; H33; H36; H38; H39.
- Anthocoris nemorum* (Linnaeus) (Anthocoridae): H13; H15; H17; H23; H24; H25; H26; H30; H32; H33; H36; H39.
- Anthocoris simulans* Reuter (Anthocoridae): H37; H38.
- Lyctocoris campestris* (Fabricius) (Anthocoridae): H33; H37.
- Orius laevigatus* (Fieber) (Anthocoridae): H6; H27.
- Orius laticollis* (Reuter) (Anthocoridae): H6; H25; H37.
- Orius majusculus* (Reuter) (Anthocoridae): H33; H34; H40.
- Orius niger* (Wolff) (Anthocoridae): H25.
- Orius vicinus* (Ribaut) (Anthocoridae): H2; H19; H37.
- Temnostethus gracilis* Horváth (Anthocoridae): H3; H25; H33; H36; H37.
- Temnostethus pusillus* (Herrich-Schaeffer) (Anthocoridae): H33.
- Temnostethus tibialis* Reuter (Anthocoridae): H3.
- Xylocoris cursitans* (Fallén) (Anthocoridae): H21.
- Cimex lectularius* Linnaeus (Cimicidae): H22; H28; H31.
- Cimex pipistrelli* Jenyns (Cimicidae): H40.
- Loricula elegantula* (Baerensprung) (Microphysidae): H25; H33; H37.
- Loricula exilis* (Fallén) (Microphysidae): H1; H33.
- Loricula pselaphiformis* Curtis (Microphysidae): H21; H33; H37; H39.

- Adelphocoris lineolatus* (Goeze) (Miridae): H10; H12; H15; H25; H26; H27; H33; H38.
Adelphocoris seticornis (Fabricius) (Miridae): H7; H9; H10; H19.
Apolygus lucorum (Meyer-Dür) (Miridae): H12; H27; H33; H37; H38.
Apolygus spinolae (Meyer-Dür) (Miridae): H3; H27; H33; H38.
Asciodema obsoleta (Fieber) (Miridae): H27; H33; H35; H37; H38; H39.
Blepharidopterus angulatus (Fallén) (Miridae): H4; H13; H16; H28; H33; H40.
Bryocoris pteridis (Fallén) (Miridae): H13; H29; H33; H38; H40.
Calocoris roseomaculatus (De Geer) (Miridae): H9; H18; H19.
Campyloneura virgula (Herrich-Schaeffer) (Miridae): H4; H8; H13; H14; H25; H33.
Capsus ater (Linnaeus) (Miridae): H4; H13; H14; H16; H23; H24; H25; H26; H33; H35; H36.
Charagochilus gyllenhalii (Fallén) (Miridae): H12; H13; H16; H17; H25; H38.
Chlamydatus pullus (Reuter) (Miridae): H9.
Closterotomus norwegicus (Gmelin) (Miridae): H13.
Compsidolon salicellum (Herrich-Schaeffer) (Miridae): H3; H12; H13; H19; H27; H37; H38; H39.
Conostethus griseus Douglas & Scott (Miridae): H38.
Cyllecoris histrionius (Linnaeus) (Miridae): H13; H25; H33; H37.
Cyrtorhinus caricis (Fallén) (Miridae): H9; H16; H25; H26; H29; H33; H36; H40.
Deraeocoris ruber (Linnaeus) (Miridae): H4; H6.
Dichrooscytus rufipennis (Fallén) (Miridae): H38.
Dicyphus constrictus (Boheman) (Miridae): H23.
Dicyphus epilobii Reuter (Miridae): H4; H13; H33; H36; H37; H39.
Dicyphus errans (Wolff) (Miridae): H6; H13; H17; H20; H25; H38.
Dicyphus pallicornis (Fieber) (Miridae): H13; H38.
Dicyphus stachydis J. Sahlberg (Miridae): H2; H11; H13; H14; H33; H37; H38; H39.
Fieberocapsus flaveolus (Reuter) (Miridae): H16.
Globiceps flavomaculatus (Fabricius) (Miridae): H9; H17; H33.
Globiceps fulvicollis Jakovlev (Miridae): H15.
Grypocoris stysi (Wagner) (Miridae): H3; H4; H5; H13; H16; H25; H33; H40.
Harpocera thoracica (Fallén) (Miridae): H1; H5; H13; H23; H25; H33; H39; H40.
Heterocordylus tibialis (Hahn) (Miridae): H3; H33; H37; H38; H39.
Heterotoma planicornis (Pallas) (Miridae): H2; H4; H19.
Leptopterna dolabrata (Linnaeus) (Miridae): H2; H3; H8; H9; H13; H16; H20; H21; H24; H33; H34; H35; H36; H37; H38; H39; H40.
Leptopterna ferrugata (Fallén) (Miridae): H9; H12; H13.
Liocoris tripustulatus (Fabricius) (Miridae): H3; H4; H16; H27; H31; H32; H33; H40.
Lygocoris pabulinus (Linnaeus) (Miridae): H16; H24; H25; H33; H36; H40.
Lygocoris rugicollis (Fallén) (Miridae): H15; H33; H36; H37; H38; H39.
Lygus maritimus Wagner (Miridae): H12.
Lygus rugulipennis Poppius (Miridae): H2; H5; H15; H22; H23; H26; H31; H35; H36; H37; H39.
Lygus wagneri Remane (Miridae): H17; H19; H21; H25; H27; H29; H33; H35; H36; H37; H38; H39.
Macrolophus rubi Woodroffe (Miridae): H13.
Macrotylus paykullii (Fallén) (Miridae): H38.
Malacocoris chlorizans (Panzer) (Miridae): H11; H25; H33; H38.
Mecomma ambulans (Fallén) (Miridae): H13; H33; H35; H36; H38.
Mecomma dispar (Boheman) (Miridae): H9; H16; H23; H35; H36.
Megacoelum beckeri (Fieber) (Miridae): H20.
Miris striatus (Linnaeus) (Miridae): H23; H25; H33; H39.
Monalocoris filicis (Linnaeus) (Miridae): H3; H13; H21; H25; H33; H37; H39; H40.
Neolygus contaminatus (Fallén) (Miridae): H3; H25; H27; H33.
Notostira erratica (Linnaeus) (Miridae): H2.
Orthocephalus coriaceus (Fabricius) (Miridae): H23.
Orthocephalus saltator (Hahn) (Miridae): H16.
Orthops campestris (Linnaeus) (Miridae): H4; H5; H6; H12; H28; H31; H32; H33; H36; H37; H38; H39; H40.
Orthotylus bilineatus (Fallén) (Miridae): H33; H37; H39.

- Orthotylus ericetorum* (Fallén) (Miridae): H3; H15; H25; H33; H37; H40.
Orthotylus flavinervis (Kirschbaum) (Miridae): H2; H5; H17; H38.
Orthotylus flavosparsus (C.R. Sahlberg) (Miridae): H9; H16.
Orthotylus marginalis Reuter (Miridae): H16; H33; H36; H37.
Orthotylus ochrotrichus Fieber (Miridae): H33; H39.
Orthotylus tenellus (Fallén) (Miridae): H25; H37.
Orthotylus virescens (Douglas & Scott) (Miridae): H2; H3; H34; H37; H38; H39.
Pantilius tunicatus (Fabricius) (Miridae): H3; H4; H8; H31; H37; H39.
Phylus coryli (Linnaeus) (Miridae): H13; H29.
Phylus melanocephalus (Linnaeus) (Miridae): H13; H33; H37; H38; H40.
Phytocoris dimidiatus Kirschbaum (Miridae): H39.
Phytocoris longipennis Flor (Miridae): H3; H9; H13; H16; H27; H31; H33.
Phytocoris populi (Linnaeus) (Miridae): H33; H37.
Phytocoris reuteri Saunders (Miridae): H25; H38.
Phytocoris tiliae (Fabricius) (Miridae): H8; H38; H39.
Phytocoris ulmi (Linnaeus) (Miridae): H8.
Phytocoris varipes Boheman (Miridae): H13; H16; H17; H39.
Pinalitus cervinus (Herrich-Schaeffer) (Miridae): H4; H13; H25; H29; H32; H33; H38; H39; H40.
Pinalitus rubricatus (Fallén) (Miridae): H38.
Pithanus maerkelii (Herrich-Schaeffer) (Miridae): H13; H24; H32; H33; H35; H36; H38; H39; H40.
Plagiognathus arbustorum (Fabricius) (Miridae): H13; H16; H25; H33; H36.
Plagiognathus chrysanthemi (Wolff) (Miridae): H13; H16; H24; H25; H27; H33; H36.
Polymerus palustris (Reuter) (Miridae): H1; H4; H15; H17; H26; H32; H33; H34; H36; H37; H39.
Psallus ambiguus (Fallén) (Miridae): H23; H25; H37.
Psallus assimilis Stichel (Miridae): H39.
Psallus confusus Rieger (Miridae): H37.
Psallus falleni Reuter (Miridae): H38.
Psallus flavellus Stichel (Miridae): H25.
Psallus haematodes (Gmelin) (Miridae): H13; H25; H33; H36; H38.
Psallus lepidus Fieber (Miridae): H9; H16; H25; H34; H37; H39.
Psallus perrisi (Mulsant & Rey) (Miridae): H33; H37; H39.
Psallus quercus (Kirschbaum) (Miridae): H25; H37.
Psallus salicis (Kirschbaum) (Miridae): H16.
Psallus variabilis (Fallén) (Miridae): H25.
Psallus varians (Herrich-Schaeffer) (Miridae): H25; H33; H38; H39.
Psallus wagneri Ossiannilsson (Miridae): H25.
Rhabdomiris striatellus (Fabricius) (Miridae): H13; H19; H25; H33; H36; H38.
Stenodema calcarata (Fallén) (Miridae): H4; H17; H25; H26; H29; H30; H32; H33; H34; H36; H38; H39.
Stenodema holsata (Fabricius) (Miridae): H13; H14; H25; H32; H35; H36; H38; H40.
Stenodema laevigata (Linnaeus) (Miridae): H11; H13; H14; H24; H25; H26; H35; H36; H39; H40.
Stenotus binotatus (Fabricius) (Miridae): H13; H16; H33; H36; H38.
Teratocoris saundersi Douglas & Scott (Miridae): H26; H32; H33; H35; H36; H37; H38; H40.
Teratocoris viridis Douglas & Scott (Miridae): H35.
Trigonotylus ruficornis (Geoffroy) (Miridae): H6; H9; H13; H16; H27; H33; H35; H37; H38.
Tytthus pubescens (Knight) (Miridae): H33.
Tytthus pygmaeus (Zetterstedt) (Miridae): H3; H5; H16; H22; H27; H36; H39.
Cryptostemma alienum Herrich-Schaeffer (Dipsocoridae): H33; H35.
Chartoscirta cincta (Herrich-Schaeffer) (Saldidae): H3; H6; H8; H10; H15; H17; H18; H23; H24; H26; H28; H30; H32; H33; H35; H36; H38.
Chartoscirta elegantula (Fallén) (Saldidae): H16; H25; H27; H33; H40.
Macrosaldula scotica (Curtis) (Saldidae): H16; H17; H29; H33; H34; H35; H39.
Salda littoralis (Linnaeus) (Saldidae): H26; H33; H35; H36; H40.
Salda morio Zetterstedt (Saldidae): H15; H32; H36.
Salda muelleri (Gmelin) (Saldidae): H16; H23; H33; H36; H37; H38; H39.

- Saldula opacula* (Zetterstedt) (Saldidae): H1; H9; H12; H15; H16; H17; H25; H32; H33; H36; H38; H39; H40.
- Saldula orthochila* (Fieber) (Saldidae): H6; H9; H15; H38.
- Saldula palustris* (Douglas) (Saldidae): H9; H12; H16; H21; H27; H28; H35; H38.
- Saldula pilosella* (Thomson) (Saldidae): H12.
- Saldula saltatoria* (Linnaeus) (Saldidae): H8; H15; H25; H26; H30; H31; H32; H33; H36; H40.
- Aepophilus bonnairei* Signoret (Aepophilidae): H9; H16; H28.
- Hebrus pusillus* (Fallén) (Hebridae): H6.
- Hebrus ruficeps* Thomson (Hebridae): H1; H3; H11; H15; H18; H19; H23; H25; H27; H29; H34; H35; H36.
- Hydrometra stagnorum* (Linnaeus) (Hydrometridae): H4; H10; H13; H16; H17; H18; H22; H23; H24; H25; H26; H28; H29; H30; H32; H34.
- Microvelia reticulata* (Burmeister) (Veliidae): H5; H6; H8; H10; H16; H25; H26; H29; H30; H32; H34; H35.
- Velia caprai* Tamanini (Veliidae): H4; H6; H10; H16; H18; H19; H20; H21; H25; H26; H27; H29; H30; H32; H34.
- Velia saulii* Tamanini (Veliidae): H16; H17; H25; H26; H27; H28; H30; H33; H36; H39; H40.
- Aquarius najas* (De Geer) (Gerridae): H3; H7; H10; H11; H13; H30; H33.
- Gerris argentatus* Schummel (Gerridae): H2; H3; H6; H12; H15; H18; H19; H23; H24; H25; H26; H27; H28; H29; H30; H32; H34; H35; H39; H40.
- Gerris costae* (Herrich-Schaeffer) (Gerridae): H6; H18.
- Gerris lacustris* (Linnaeus) (Gerridae): H6; H10; H12; H14; H15; H16; H18; H22; H23; H24; H25; H26; H30; H32.
- Gerris lateralis* Schummel (Gerridae): H2; H9; H11; H18; H19; H26; H27; H32; H34; H39.
- Gerris odontogaster* (Zetterstedt) (Gerridae): H5; H10; H12; H16; H18; H22; H23; H25; H26; H29; H30; H32; H34; H35.
- Gerris thoracicus* Schummel (Gerridae): H15; H16; H18; H24; H25; H26; H28; H30; H31; H36.
- Limnoporus rufoscutellatus* (Latreille) (Gerridae): H1; H5; H15; H16; H23; H34; H38.
- Nepa cinerea* Linnaeus (Nepidae): H6; H10; H12; H13; H15; H18; H19; H22; H23; H24; H25; H26; H32.
- Aphelocheirus aestivalis* (Fabricius) (Aphelocheiridae): H1; H2; H3; H4; H6; H8; H10; H11; H12; H13; H15; H16; H17; H18; H23; H24; H25; H27; H28; H29; H30; H34; H35; H36.
- Notonecta glauca* Linnaeus (Notonectidae): H6; H10; H18; H22; H24; H25; H26; H32.
- Notonecta obliqua* Thunberg (Notonectidae): H28; H29; H37.
- Notonecta viridis* Delcourt (Notonectidae): H5; H6; H9; H39.
- Plea minutissima* Leach (Pleidae): H22; H32.
- Arctocorixa germari* (Fieber) (Corixidae): H4; H11; H18; H22; H24; H25; H29.
- Callicorixa praeusta* (Fieber) (Corixidae): H4; H5; H8; H11; H12; H18; H22; H24; H26; H27; H29; H30; H32.
- Callicorixa wollastoni* (Douglas & Scott) (Corixidae): H6; H9; H30; H32.
- Corixa affinis* Leach (Corixidae): H12; H16; H28; H38.
- Corixa dentipes* Thomson (Corixidae): H1; H9; H12; H15; H22; H25; H26; H28; H29; H30; H32; H34.
- Corixa panzeri* Fieber (Corixidae): H8; H18; H22; H27; H32; H33; H34; H39.
- Corixa punctata* (Illiger) (Corixidae): H6; H8; H11; H12; H22; H26; H28; H29; H30; H32.
- Cymatia bondsdorffii* (C.R. Sahlberg) (Corixidae): H14; H18; H29; H30; H32; H40.
- Hesperocorixa castanea* (Thomson) (Corixidae): H6; H11; H18; H25; H26; H28; H29; H32.
- Hesperocorixa linnaei* (Fieber) (Corixidae): H6; H10; H11; H15; H18; H23; H25; H27; H29; H30; H32.
- Hesperocorixa moesta* (Fieber) (Corixidae): H11; H39.
- Hesperocorixa sahlbergi* (Fieber) (Corixidae): H6; H11; H18; H25; H26; H28; H29; H32.
- Micronecta poweri* (Douglas & Scott) (Corixidae): H9; H20; H23; H25; H26; H27; H30.
- Paracorixa concinna* (Fieber) (Corixidae): H4; H5; H12; H20; H22; H29; H30; H32.
- Sigara distincta* (Fieber) (Corixidae): H6; H8; H14; H18; H20; H24; H25; H32.
- Sigara dorsalis* (Leach) (Corixidae): H4; H6; H18; H22; H24; H25; H26; H29; H32.
- Sigara falleni* (Fieber) (Corixidae): H1; H4; H18; H20; H24; H25; H26; H29; H32.

Sigara fallenoidea (Hungerford) (Corixidae): H16; H17; H23; H24; H29; H30; H35.
Sigara fossarum (Leach) (Corixidae): H1; H12; H25; H29; H32; H35.
Sigara lateralis (Leach) (Corixidae): H3; H11; H12; H18; H20; H26; H30; H37.
Sigara limitata (Fieber) (Corixidae): H26.
Sigara nigrolineata (Fieber) (Corixidae): H22; H24; H28; H29; H31.
Sigara scotti (Douglas & Scott) (Corixidae): H18; H19; H21; H25; H26; H28; H29; H40.
Sigara selecta (Fieber) (Corixidae): H9.
Sigara semistriata (Fieber) (Corixidae): H18; H28; H29; H38.
Sigara stagnalis (Leach) (Corixidae): H9; H16; H20; H27; H28.
Sigara venusta (Douglas & Scott) (Corixidae): H27.

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**CANTHOPHORUS IMPRESSUS FOUND IN VC20 AND OTHER UPDATES TO
THE ATLAS OF THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES**

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Preliminaries

As the calendar hit the first of June, the month of the deadline for this latest update, I sat down in front of my laptop to write about two more Mirid species, a pair of Anthocorids, and a Coreid that needed to be added to the *Atlas of the Hemiptera-Heteroptera of the British Isles* (Ryan, 2014a; 2014b). Three of the records were overlooked older records while the other couple were more recently determined observations (via iRecord). As I finished the final sentence, about *Closterotomus trivialis* (A. Costa) – for which a 26 June 2016 record from Maple Lodge Nature Reserve (TQ036923) was determined earlier this year as the first recorded sighting in VC20 – I headed out into my small back garden for some sunlight. And there, sitting on a Raspberry leaf was a female *Closterotomus trivialis*. The second record for the county. Since then I have recorded males and females of this species everywhere I've been in Herts, on plants as diverse as White Bryony and Common Gorse. “At least I have something more to add to the report,” I thought. The next day, things would get a lot more interesting still.

***Canthophorus impressus* found in VC20**

I headed to Therfield Heath for a Herts Invertebrate Project field meeting on 2 June 2018. We had visited the site almost exactly two years to the day earlier, and that time, with William Bishop, I had spent around two hours on the chalk downland of Church Hill grubbing under Bastard Toadflax in a speculative search for *Canthophorus impressus* (Horvath). We found no sign of the insect, but we were not surprised as it had never been found in Herts and it was thought to have been completely lost from the East of England. We were recounting this at the start of our return visit as we headed in a fairly direct line from the car park to Church Hill, but this time we had Cynthia Combe, a Conservator of Therfield Heath, in our company. She mentioned that there was a small amount of Bastard Toadflax away from Church Hill (the nature reserve) in the rough of the golf course that constitutes much of the SSSI.

We asked her to show us this patch and, with no thought at all that we might find *Canthophorus impressus*, we started to look under the leaves. Almost instantly, Ian Carle found one half-buried adult in the soil (TL3339), and I determined the record in the field. With a little bit more searching, I found a second adult.

So what was different about the Bastard Toadflax here versus that on nearby Church Hill, where it is much more abundant, but where the bug has still not been found? It is possible that the soil is less friable on Church Hill, but I have no hard data to support that. Another potential factor is that the ground immediately surrounding the Bastard Toadflax where we found the bug was very sparsely vegetated.

***Megalonotus antennatus* also found in VC20**

A few hours after finding *Canthophorus impressus*, following some time spent on Church Hill, we drifted just off Therfield Heath onto a set-aside area that is part of Greys Farm. Ian Carle's purple patch continued, as he swept a ground-bug off meadow herbage that I later determined as *Megalonotus antennatus* (Schilling). This was another first county record.

Second VC20 record of *Chlamydatus evanescens*

I was still not quite ready to sign off on this report, and so on 6 June I headed to my local graveyard, Hatfield Road Cemetery, inspired by an article by Ryan (2015). Following the advice to examine stonecrop on old gravestones, I quickly found several *Chlamydatus evanescens* (Boheman), adding a second record for VC20 (TL162071).

Other updates to the Atlas

To complete this article, I must detail the other species mentioned at the start of this piece. In addition to *Closterotomus trivialis*, the other Mirid to add to the Atlas for VC20 is *Trigonotylus caelestialium* (Kirkaldy), for which previously overlooked records made by John Widgery exist from between 1998 and 2005 from Patmore Heath and Therfield Heath. The Coreid to add is *Ceraleptus lividus* Stein, again based on an overlooked John Widgery record, this time from Long Deans Nature Reserve in 2006, while one of the Anthocorids, *Temnostethus pusillus* (Herrich-Schäffer), is likewise from a John Widgery record, from Therfield Heath between 2000 and 2004. Lastly, a record of *Anthocoris butleri* (Le Quesne) dating back to 10 April 2013 was posted on iRecord by Chris Shortall from Rothamsted (TL134134), and this was determined by Tristan Bantock.

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